Volume # R0282

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PRELIMINARY OATHS OF ASSISTANTS.

Wu	and that the	where that he will less to
WE, do solemnly swear that we will well and chain over even and uneven ground, and we will report the true distances to all a measuring, to the best of our skill and abi	1	1 (14) 21 (14) 21 (15) 10 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11 (15) 11
•		, Chainras
		, Phanes
Subscribed and sworn to before me the	1	
day of	120	
क्षात्र क्षण्याच्या १५ स्थापन हे १८१५ क्षण्याच्या		
WE, do solemnly swear that we will well a of corners, according to the instruction	and truly perform the data of the given in the first test of a	e organism e organism en haddadeleter a organism e et letter e an haddadeleter s
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Subscribed and sworn to before me this day of	. 189	
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		\$ 27
Subscribed and sworn to before me th	is /	
day of	. 180	
GEOGRAPH G. SUNG MICHELES		
l,	ing to instructions given me, to th	dy sweet that I will well and ability, i
survey of		
Subscribed and sworn to before me f	his	
day of	, 189	A
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PRELIMINARY OATHS OF ASSISTANTS.

	_		
WE,	and		*** 7 7 7 1
a la among that we will well and faithf	ully execute the au	mes or chammen	; that we will level the
chain over even and uneven ground, and plumb	the tally pins, eith	or by sticking or o	tropping the same; that
we will report the true distances to all notable	objects and the f	rue lengths of al	l lines that we assist in
we will report the true distances to all notable	Objects, and the	ith includetions of	eiven us, in the survey of
measuring, to the best of our skill and ability, a	nd in accordance w	Ion most devious E	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			, Chainman.
			(17 !
			, Chainman.
	,		,
Subscribed and sworn to before me this	<u>(</u>		;
day of, 189)		
aay or			
GA STEAT, MA			i
WE,	and		*
do solemnly swear that we will well and tru	ily perform the di	ities of moundin	en in the establishment
of corners, according to the instructions give	m us. to the best	of our skill and	ability, in the survey of
of corners, according to the metractions give	,		
		ē = =	
			36 7
		•	. Moundman.
			., Moundman.
			., Mountaman.
Subscribed and sworn to before me this)		
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day of, 189)		
enconcreted .			
SEAL M SEAL M FEETOS			
Moresta			
We,			
do solemnly swear that we will well and truly			
and other duties, according to instructions give	en us, to the best	of our skill and	ability, in the survey of
	., .,		. , Arman.
			, Axman.
Subscribed and sworn to before me this			
day of, 189	ſ		
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T TELEPH			+ + + ++++
N. S. L.			
I,	, do	solemnly swear t	hat I will well and truly
perform the duties of flagman according to in-	structions given me	a. to the best of n	ry skill and ability, in the
	8-1 0-2	,	., , , , , , , , , , , , , , , , , , ,
survey of			
		•	
			, Flagman
			-
Subscribed and sworn to before me this)		
day of, 189	ζ		
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SEAL (S			

BOOK A-282

INDEX DIAGRAM.

PRELIMINARY OATHS OF ASSISTANTS.

777	and
WE,	execute the duties of chainmen; that we will level the
do solemnly swear that we will well and right the ta	ally pins, either by sticking or dropping the same; that
chain over even and theven ground, and praise the	ts, and the true lengths of all lines that we assist in
measuring to the best of our skill and ability, and in	accordance with instructions given us, in the survey of
measuring, to the best of our blade and by	
* * * * * * * * * * * * * * * * * * * *	
	, Chainman.
	, Chainman.
•	
Subscribed and sworn to before me this	ì
day of, 189	S
SEAL (S	
Optionation	
WE,	and
	form the duties of moundmen in the establishment
	to the best of our skill and ability, in the survey of
	, Moundman.
	, Moundman.

Subscribed and sworn to before me this	$ar{l}$
day of, 189	
monomona	<u></u>
() SEAL (A)	
WE,	and
do solemnly swear that we will well and truly perform	n the duties of axmen in the establishment of corners
and other duties, according to instructions given us,	to the best of our skill and ability, in the survey of
	, Axman.
	, Axman,
	•
Subscribed and sworn to before me this)
day of, 189)
(FT) THE COURT OF	
SEAL (A	

I,	, do solemnly swear that I will well and truly
perform the duties of flagman according to instruction	ons given me, to the best of my skill and ability, in the
survey of	
,	, Flagman.
Subscribed and sworn to before me this	1
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day of , 189)
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FIELD NOTES

OF THE SURVEY OF THE

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	O.E.	
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W	**********************	
TOWNSHIP NO.42 S	SOUTH, RANGE NO.	I4 WEST,
		170
***************************************		· · · · · · · · · · · · · · · · · · ·
	,	
Of the Salt Inke	Base and	Meridian,
•		
in the State of	Utah.	
	AS SURVEYED	BY
" whom R Dulloy		Their Charles Denniky Surgician
aynew a, barrey	*	, United States Deputy Surveyor,
n hin Contract 30 22	4 dated	January 25, 1699, 189
er ats contract No	Turning WWWW arrange	
eu commenced	May 22,	1899+, 189
cy completed	lar 25,	16.2. , 189
6—131		

NAMES AND DUTIES OF ASSISTANTS.

Albert C.Dalley,	Chainman.
Heber Dalley,	Chainman.
Daniel S.Macfarlane,	:Toundman.
David Dix,	Houndman.
Daniel S.Macfarlane,	. Axman .
Henry Houchen,	Axman.
David Dix,	Flagma h.

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Tow	nship		, Range				
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PRELIMINARY OATHS OF ASSISTANTS.

WE albert 6 Galley	and Hocher Dalley
is a locally among that we will well and faithfully	execute the duties of chainmen; that we will level the
of the sace when and moven ground, and plumb the	tally pins, either by sticking or dropping the same; that
en will report the true distances to all notable obje	ets, and the true lengths of all lines that we assist in
the correction to the best of our skill and ability, and in	accordance with instructions given us, in the survey of
the South boundary of Township No.42	South, Range No. 14 West, of the Salt
Lake Based Meridian, in the State of	of 411). 1 (1) 11
·	The Dalley , Chainman
	Holler Daller, Chainman
	ď
Sub-cribed and sworn to before me this 1240	· (
day of May 1899	Senora & Dalley
And the Commission Expires	· · · · · · · · · · · · · · · · · · ·
March 20th, 1903	Notary Public
WE Daniel & Macfarla	weland David Dix
	erform the duties of moundmen in the establishment
	to the best of our skill and ability, in the survey of
salt hake Base and Meridian, in the	state of Utah.
·	0 .
.5[u	mul & Mucfarland Moundman!
	Carrol. Lix: , Moundman.
10.11	·
Subscribed and sworn to before me this 12th	.)
day of May 1899.	Senora & Dallin
No Committee Control	
March 20th, 1903	Notary Public
· Comment of the state of	
Wi, Lange & Malgary	anelmi Henry Houchen
· · · · · · · · · · · · · · · · · · ·	rm the duties of axmed in the establishment of corners
the South boundary of Township Mo. Sait Lake Base and Meridian, in the	s, to the best of our skill and ability, in the survey of 42 South, Range 10.14 Vest, of the
	David D. Maczoslowe , Arman.
	H A
	Henry Rouchen , Auman.
Subscribed and sworn to before me this 12th)
day of May 1809	
2	Notary Public
Ey Commistier Expires March 20th, 1903	Actor (P. Alia
(A)	Choung Ouble
David Dix	
w riotin Casalwie of it, main according to instructi	ions given me, to the best of my skill and ability, in the
aver the Couth houndary of Young	thip No.42 South, Range No.14 W.of
the fift Lake Purveler nian, in the	State of Utah.
	David Diy , Magman.
set and at a first rate to before me this 12 th	•
Ny Commission Epiges My Commission Epiges March 20th, 1903	-
My Commission Expires	Senora 6 David
March 20th, 1903	1 1 MA
See at statistic	Senora & Day
	<i>\(\ell\)</i>

Chains

Survey commenced May 22, I899, and executed with a W.& L.E.Gurley Light Mountain Solar Transit No.31, with Jones' Patent Double Latitude Arc No.45, with reversible level bubble.

The horizontal limb is provided with two opposite verniers reading to single minutes of arc; the verniers of the declination arc read to thirty seconds of arc; and the verniers of the smaller and larger latitude arcs read to single minutes and to ten seconds of arc respectively.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the Surveyor General for Utah, April 28, 1899.

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a true meridian determined by observation on Polaris, I proceed as follows:

May 22:At the closing cor.of Tps.42 and 43 S., bet.Rs.I3 and I4 W., approximate latitude 37° 7' N., longitude II3° I8' W., I set off 37° 7' N. on the lat. arc; 20° 31' N. on the decl. arc; and, at 4h 56 h, p.m., l. m.t., determine with the solar a true meridian; and mark a point thereof on a large flat stone firmly set in a mound of stones, 5.00 chs.N. of the cor.

May 22, 1899.

May 23:At 3^h 23^m a.m.,l.m.t.,I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point on the line thus determined on a large flat stone set firmly in a mound of stones, 5.00 chs. M. of my station.

At 6^h 30^m a.m., l.m.t., I lay off the azimuth of Polaris, I o 33, to the west and mark the True Meridian thus determined, by cutting a small groove in the stone set May 22, on which the true meridian falls 0.3 ins., east of the mark determined by the solar.

At 6h 57m a.m., l.m.t., I set off 370 7' K.on

(2)

South Boundary of T.42 S., R.14 W.-Continued.

Chains the lat.arc;20° 38' N.on the decl.arc; and mark a point in the true meridian determined with the solar, by a cross on the stone already set 5.00 chs.N. of my station; this mark falls 0.25 inc.east of the True Meridian established by the Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for true meridians, respectively about 0' 16" west and 0' 13" east of the true meridian established by the Polaris observations; therefore, I conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8^h a.m., is N.I5^o 56^t W.; the angle thus determined, reduced by the table, page IOO, gives the mean mag.decl. I5^o 52^t E.

I begin at the closing cor.of Tps.42 and 43 S., bet.Rs.I3 and I4 W., which is a red sandstone 36x8x5 ins., firmly set in a mound of stone, and marked and witnessed as described by the Surveyor General.I remark this stone for cor.of Tps. 2 and 43 S., Rs.I3 and I4 W., with 6 notches on each edge, 42 S. on II.E., I3 W. on S.E., 43 S. on S.W., and I4 W. on II.W. faces; and raised a mound of stone, 2 ft.base, I I/2 ft.high, S. of cor. Pits impracticable. Solid sandstone surface prevented setting the corner stone deeper. I obliterate all marks pertaining to the closing Tp.cor., and also destroy all traces of the old cor.to Tps.42 and 43 S. Rs.I3 and I4 W., which I find at 24.39 chs., South '., of the new Tp.cor.

I lay off from the true meridian an angle of $90^{0}\,$ from N.to W..

Thence I run

West, on a random line, along the S. bdy.of Tp.42 S., R. I4 W., setting temp. I/4 sec. and sec. corners at intervals of 40.00 chs.; and, at 485.00 chs., intersect the W.bndy.of the Tp., at 6.63 chs. N, of the cor.of Tps.42 and 43 S., Rs. I4 and I5 W., which is a white sandstone I8x6x6 ins., firmly set in a mound of stones, and marked and witnessed as described by the Surveyor General. The falling exceeds the limits of 2I minutes of arc, as prescribed by the Manual, counting from S.E.

South Boundary of T.42 S., R. I4 W.-Continued.

Chains.	cor.of the Tp.; therefore, at the intersection with	
	the W. bdy. of the Tp., at 6.63 chs. N. 0° 30'W. of the ol	a s.w.
	cor.of the Tp., I set a white sandstone 24x10x8 ins.,	
	I8 ins.in the ground, for closing cor.of Tps.42 and	
	43 S., R. I4 W., marked C.C. I4 W. and 6 grooves on E.	
	face, 42.5. and 6 grooves on N.face, 43 S. and 6 grooves	
	on S.face; dug pits 30x24xI2 ins., crosswise on each	
ņ	line H.and S.,4 ft., and E.of stone 8 ft.dist.; and	
	raised a mound of earth,5 ft.base,2 $I/2$ ft.high,E.of	
:	cor. I destroy the marks on the old cor.to Tps.42	
		I

Rs.14 and I5 W., which I established May 23,1899.

Thence I run

.I begin at the closing cor.of Tps. 42 and 43 S., bet.

and 43 S., Rs. I4 and I5 W. that pertain to R. I4 W.

May 23, 1899.

East, on a true line bet.secs.6 and 3I.

Over rolling gypsum foot hills descending to N.W.

19.00

45.00

57.00

slope.

Rio Wirgin; ascend abruptly on W.W.slope.

Top of sharp ridge about 400 ft.above the foot, bears

N.40°E.and S.40°W.; thence descend abruptly on S.E.

Foot of granite and sandstone ridge about 200 ft. above the Tp.cor., bears S.45°W. and N.45°E.to the

Set a gray granite stone 20xI2x4 ins., I5 ins.deep in a mound of stone, for I/4 sec.cor., marked I/4 on N. face; and raised a mound of stone, 2 ft.base, I I/2 ft.

high, N. of cor. Pits impracticable. Solid sandstone surface prevented setting the cor. stone deeper.

This cor. is on the S.E. slope about I50 ft. below the top of ridge, on what is known as the Warner Range.

Foot of ridge about I50 ft.below the I/4 sec.cor., bears N.40°E.and S.40°W.; thence ascend N.W.slope of volcanic reef and spur of main ridge which bears N.E. and S.W.

Top of reef about 30 ft.above the foot, bears N. I50E.

and S.I5°W.;descend E.slope of reef.

Fort Pierce wash at foot of reef in Warner's canon,

about 30 ft.below top of reef,25 ft.wide and IO ft. deep,drains N.40°E.to the Rio Virgin.

69.90 Old road to Washington and Ft. Pierce in bottom of

South Boundary of T.42 S., R.14 W.-Continued.

		South Boundary of T. 42 S., R. 14
	Chains	wash, bears N.40°E. and S.40°W.; thence ascend over
		rolling sandy foot hills sloping to H.W.
	83.60	Top of sandridge about 75 ft.above Ft.Pierce wash,
	00.00	bears N.80°W.and S.80°E.; descend on E.E.slope of
		sandridge.
	85.00	Bottom of hollow about 25 ft.below top of ridge, drains
	85.00	N. 70°W.
		Set a red sandstone I5xI0x6 ins., I0 ins., in the ground,
		for cor.of secs.5,6,3I and 32, marked with I notch on
		the W.and 5 notches on the E.edges; and raised a
		mound of stone 2 ft.base, I I/2 ft.high, W.of cor.
		Pits impracticable.
		Land broken foot hills and ridges.
		Soil, gypsum, stony and sandy; 4th.and 2nd.rate.
		No timber.
		Mountainous land on 85.00 chs.
		Foot hills afford fair grazing when supplied with
		moisture.
		East, bet.secs.5. and 32.
		Ascend gradually over broken foot hills, sloping E.W.
		and W.; in sandy soil; through dense sage and grease-
		wood undergrowth.
	19.00	Trail bears N.60°E., and joins main trail at about
		I.50 chs.,and S.60°W.
•	26,40	Main trail to Rio Virgin bears N.5°W. and S.5°F.
	40.00	
		Set a red sand stone24xI4x7 ins., I8 ins. in the ground,
		for I/4 sec.cor., marked I/4 on N.face; dug pitc 18x18
		xI2 ins., E. and W. of stone 3 ft.dist.; and raised a
		mound of earth 3 I/2 ft.base, I I/2 ft.hi.h, ".of cor.
		This cor.is on W.slope. of rolling sandy foot hills
	41.00	about I50 ft.above the sec.cor.
	4I.00	Leave dense undergrowth; enter scattering greasewood
	45 5 4	and sage bears N.I5°E.and S.I5°W.
	45.56	Foot of red sandstone mountain, about 75 ft. above the
		I/4 sec.cor., bears N.I50E. and S.I50W.; thence ascend
		rapidly on W.slope.
	64.60	Foot of red sandstone ledges on W.slope, almost per-
		pendicular, about 200 ft. above foot of, bears N.
		150 E.and S.158 W.; thence ascend abruptly over led-
		ges.

YUM MICUL

(5)

South Boundary of T.42 S., R.14 W.-Continued.

```
Chains.
        Top_of ledges.about IOO ft.above the foot, bears N.
65.00
        15^{\circ}E and S.15^{\circ} . W.; thence ascend abruptly about 75 .
        ft.over broken ledges, to . . .
 67.45
        Top of broken ledges bears N.I5°E.and S.I5°W.:thence
        over top of sand stone mountain, gradually ascending.
        Top of ascent about IOO ft.above the broken ledges,
 79.00
        bears N. 100 E. and S. 100 W.; thence descend on E. slope.
80.00
        Set a red sandstone 24xI2x7 ins., I8 ins., in the ground,
        for cor.of secs.4,5,32 and 33;dug pits I8xI8xI2 ins.
        in each sec., 5 \text{ I/2} ft.dist.; and raised a mound of
        earth, 4 ft.base, 2 ft.high, W.of cor. This cor. is
        about 10 ft.below top of ascent on sand mountain.
        Land, mountainous, and broken. 11 kg for 1916.
        Soil, sandy, stony and gravelly; 2nd. and 4th.rate.
        Dense sage and greasewood undergrowth 41.00 chs.
        Mountainous land on 80.00 chs.
                                                  No timber.
        Good grazing on foot hills and top of mountain when
        supplied with moisture.
        Note: This point overlooks the valley of the Rio
        Virgin to the N.N.W. and W. The town of Washington
        in the distance bears N.45°IO'W.; the town of Middle-
        ton bears N.62040'W.;St. george City bears N.77045'W.
        and the L.D.S. Temple spire in St. George City bears
        N.80°55'W.
        May 24:At this cor.I set off 200 50.5 N.on the decl
        arc; and at IIh 56m 5 a.m., 1.m.t., observe the sun on
        the meridian; the resulting lat.is 37° 7' N. -the
        true latitude.
        East, bet.secs. 4 and 33.
       Descend gradually over top of sand mountain sloping
       N.E.; through dense sage, greasewood and large cactus
```

undergrowth; in sandy gravelly soil.

4.00 Enter rich sandy-loamy soil bears N.E. and S.W.

40.00 Set a red sandstone 36xI0x6 ins.,27 ins.in the ground,

for I/4 sec.cor., marked I/4 on N. face; dug pits I8x

I8xI2 ins., E. and W. of stone 3 ft.dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, N. of cor.

This cor. is about I50 ft.below the sec.cor.

77.00 Top of hollow about I25 ft.below the I/4 sec.cor., bears N.30°E.and S.30°W.; thence descend on E.slope

5I.00

South Boundary of T.42 S., R. J4 W.-Continued.

Chains of hollow. Set a red sandstone 30x20x6 ins.,23 ins.in the ground, 80.00 for cor. of secs. 3, 4, 33 and 34, marked with 3 notches on E. and W. edges; and raised a mound of stone 2 ft... base, I I/2 ft.high, W. of cor. Pits impracticable. This cor. is about 25 ft. below the top of hollow. Land, nearly level except descent of hollow. Soil, sandy and gravelly, and rich sandy loam; 3rd, and Ist.ratec. Dense sage, greasewood and cactus undergrowth 80.00 Good grazing when well supplied with moisture. May 24:At 3h p.m., l.m.t., I set off 370 7. N. on the lat.arc;20052'N.on the decl.arc;and determine a true meridian with the solar at the cor.of secs. 3, 4,33 and 34. Thence I run East, bet. secs. 3 and 34. Descend on E.slope of hollow; in sandy-loamy soil; through dense sage, greasewood and cactus undergrowth .30 Bottom of hollow about IO ft.below the sec.cor., drain's N.5.00 chs.; thence N.300E.; thence ascend W.slope of hollow. Top of hollow about 40 ft.above the bottom bears N. 2.00 5.00 chs., thence N.300E.; descend gradually over flat top of sand mountain. Top of hollow about 75 ft.below the sec.cor. bears 34.00 $\rm N.10^{\rm O}\,E.$ and $\rm S.10^{\rm O}\,W.$; descend gradually into hollow. 37.00 Leave dense undergrowth and enter almost barren sand drifts bears N.IO E. and S.IO W.: 6 Bottom of hollow about 25 ft.below the top drains, 39.50 N. IOOE.; thence ascend W. slope of hollow. Set a red sandstone 20x12x4 ins., 15 ins.in the ground, 40.00 for I/4 sec.cor., marked I/4 on N.face; dug pits I8xI8xI2 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, N.of cor. This cor.about IO ft.above bottom of hollow. 44.00 Top of hollow about 40 ft. above the I/4 sec. cor., bears N. and S.; thence ascend gradually.

Foot of sand-drift about 25 ft. above the top of hol-

South Boundary of T. 42 S., R. 14 W.-Continued.

	John Doundary of 11.42 J., R. 14 W Continued.
Chains.	low bears N.W. and S.E.
54.00	Top of sand drift about 25 ft. above the foot; bears
	N.W. and S.E.; descend.
	Foot of sand-drift about 25 ft.below the top bears
	N.W.and S.E.; thence ascend gradually over sandy
	soil:
80.00	Set a red sandstone 20xI6x7 ins., I5 ins.in the ground,
	for cor.of secs.2,3,34 and 35, marked with 2 notches
	on the E.and 4 notches on the W.edges; and raised a
	mound of stone, 2 ft.base, I I/2 ft.high, W.of cor.
	Pits impracticable-in sand-drifts.
	Land, broken & Hountainous.
	Soil, sandy loam, sand-drifts and sandridges; Ist.and
	4th.rate. No timber.
	Dense sage, greasewood. and cactus undergrowth 37.00 chs.
·	Mountainous land on 80.00 chs.
	W.I/2 mi.good grazing when supplied with moisture.
	May 24,1899.
	May 25:At 8h 56m7 a.m., l.m.t., I set off 370 7 N.on
	the lat.arc;210 0.5 N.on the decl.arc;and determine
,	a true meridian with the solar, at the cor.of secs.2,
	3,34 and 35.
	Thence I run .
-	East, bet.secs.2 and 35.
	Ascend gradually over sand-drifts.
3.00	Foot of sandridge about I5 ft.above the sec.cor.,
	bears N.100E.and S.100W.Enter stony ground and dense
	sage, greasewood, service-berry and cactus undergrowth
	which bear N.IOOE.and S.IOOW.; ascend W.slope of sand
	ridge.
13.00	Top of sand ridge about 100 ft.above the foot bears
	N.10°E. and S.10°W.; thence descend gradually over
	flat top of sand-stone mountain.
36.00	Top of sandstone reef on W.side of hollow, about 50
,	ft.below top of sand-ridge, bears N.10°E.and S.10°W.;
	thence descend in to hollow.
37.50	Bottom of hollow at foot of sand stone reef about 25
	feet below the top, drains N. 10°E.; ascend.

Set a volcanie stone I8xI2x7 ins., I2 ins., in the ground, for I/4 sec.cor., marked I/4 on N.face; and

South Boundary of T.42 S., R. I4 W.-Continued.

01	T T/o et high Nice
Unain	straised a mound of stone 2 ft.base, I I/2 ft.high, N.of
	corner.Pits impracticable-sand stone surface This in
	cor.is on N.W.slope of sand ridge which bears N.E.
	and S.W., about 20 ft. above the bottom of hollow.
45.00	
***************************************	bears N.40°E.and S.40°W.; thence descend over sand-
	stone reefs.
56.00	Foot of sand stone reefs about 100 ft.below the top
	bears N.400E.and S.400W.; thence over almost level
	top of sand hills, gently rolling.
64.00	Begin ascent of W.slope of sand ridge bears N.400E.
	and S.40°W. A small grove of cottonwoods bears S.
	about IO.00 chs.
69.00	W.foot:of sand-stone boulder, about 80 ft.N. and S.by
	66 ft.E.and W.,and 40 ft.high.
70.00	E.foot of sand stone boulder at top of ascent, about
	100 ft.above foot of ascent, bears N.and S.
	Begin decent over sand-stone reefs.
74.00	Foot of descent about IOO ft.below the top, bears N.
	40° E.and S.40° W.; thence over level top of sandridge.
80.00	Set a red sandstone 28xI4x5 ins.,2I ins.deep in a
	mound of stone, for cor.of secs I,2,35 and 36, marked
	with 5 notches on the W.and I notch on the E.edges;
	and raised a mound of stone, 2 ft.base, I I/2 ft.high,
	W.of cor. Pits impracticable.Hard sand stone surface
ļ	prevented setting the cor.stone deeper.
	Land mountainous, broken; sand hills and sandridges.
	Soil, sand-drifts, sandy, gravelly and stony; 3rd. and
	4th.rate. No timber.
	Dense sage, greasewood, service-berry and cactus under
	growth 77.00 chs.
	Mountainous land on 80.00 chs.

East, bet.secs. I and 36.

Ascend gradually over flat top of sand ridge; through dense sage, greasewood, serviceberry and cactus undergrowth.

- 8.40 Top of ascent about 40 ft.ahove the sec.cor., bears %.60°E.and S.60°W.; thence descend rapidly over sandstone reefs.
- 21.50 Begin more gradual descent over sand stone recfs.

South Boundary of T.42 S., R.14 W.-Continued.

(h inc

44.00

57.00

65.00

74.00

- Foot of descent about I50 ft.below the top bears N. 60°E.and S. 60°W.; thence ascend N.V.slope of sand-ridges.
- Top of sand-stone reefs about 70 ft.above the foot of descent, bears N.60°E.and S.60°W.; thence descend over sandstone reefs on S.E.slope.
- 38.00 Bottom of hollow at foot of sand stone reefs about
- 40 ft.below the top, drains N.60°E.; thence ascend.
 40.00 Set a red sandstone 24xI2x7 ins?, I8 ins., in the ground,
 - for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone 2 ft.base, I I/2 ft.high, N.of cor.
 - Pits impracticable.

 This cor.is on N.W.slope about 20 ft.above the bottom of hollow.
 - Top of sandstone reefs about 40 ft.above the I/4 sector., bears N.60° E.and S.60°W.; thence descend over
 - sandstone reefs sloping to N.E.

 Foot of descent about IOO ft.below the top bears N.

 60°E.and S.60°W.; thence over top of sandridge almost
 - level.

 Descend on S.E.slope of sandridge.Leave dense under-
 - growth, and enter medium dense undergrowth bears N. and S.
 - Bottom of hollow at foot of sandridge about IIO ft. below the top, drains N.70°E.; thence ascend N.W.slope
- of sandridge about I25 ft. to

 80.00 The cor.of Tps.42 and 43 S..Rs.I3 and I4 W
 - The cor.of Tps.42 and 43 S., Rs. I3 and I4 W. Land, broken ridges, reefs and hollows
 - Soil, sandy and stony; 3rd. and 4th. rate. No timber.
 - Dense sage, greasewood, service berry and cactus un-
 - Mountainous Cland on 80.00 chs.

dergrowth 65.00 chs.

adjustments correct.

- May 25:At this Tp.cor.I set off 21°I. N.on the declarc; and at IIh 56m.7 l.m.t., observe the sun on the
- meridian; the resulting lat.is: 37^d 7 N.

 May 25:At the meridian established May 23, at 2^h 56^m.7
 - p.m.,l.m.t.,I set off 37° 7'N.on the lat.arc;21°3'N. on the decl.arc;and test the adjustments of my solar, finding it gives the same meridian as before and

May 25, 1899.

South boundary of T.42 S., R.14 W.,-continued.

GENERAL DESCRIPTION.

For General Description see subdivision notes of this Township.

Mayhew H Dalley. U.S. Deputy Surveyo.

Design	oted	True	Dist	Lati	tudes	Dero.	rtures
		Beoring	Ï	N	S	E	W
				Chs	CAS	Chs	Ch5
/y T 9	25 R 19W	West	485.00				985,00
FBdy	S A 15W Sec 36	NO*30W	73,33	7333			.70
y sec	25	NOZ4W	80,58	8058			.56
"	24	NO 40'W	. 80,50	80,50			.99
" ·	13	NO. 30 M	8006	80.06			. 26
t,	12	NO.15 W	8046	80,96			.28
"	/	North	39.69	39.69			
". TAIS F	19W	N9º14'H	40,54	40.00			6.50
	. , , , ,	S89.55E	81,70		12	81.70	
Sec,32		S8955E	81,70		.12	81,70	
Sec 33		V89.40E	82,40	48		82,40	
Sec 34		S 8957E	82.70		.07	8270	
Rec 35		S8957E	85.00		.07	85.00	
	PIONE	S8957E	80,20		.07	80,20	
Sec 6		50°10'H	74.82		7482		,22
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ergen	ay .				·	,55	
				475.10	475.27	494.25	49548
	/y T 9 2 1 4 2 5 2 C 3 2 Sec 3 3 Sec 3 4 Sec 3 5 Sec 3 6 T 4 2 5 6 C 7 4 2 5 7 7 4 2 5 7	7 42 S R 15W EBdy Sec 36 14 Sec 25 1 13 1 12 1 12 1 13 1 2 1 5ec 31 Sec 32 Sec 33 Sec 34 Sec 35 Sec 36 T 42 S R 14W	Y T 9 2 5 F 1 9 Wes Wes Y T 92 5 F 15 W No 3 d W EB dy Sec 3 6 No 2 9 W No 20 W No 12 W No 12 W No 12 W No 12 W No 14 W Sec 3 1 Sec 3 1 Sec 3 5 Sec 3 6	Bearing Ay T 925 RIAW Was ! A85,00 BEBY Sec 36 No 24W 80,58 No 20W 80,50 No 20W 80,50 No 12W 80,66 North 39,69 North 39,69 North 39,69 No 14W 80,59 Sec 31 Sec 32 Sec 33 Sec 34 Sec 36 T 425 RIAW Sec 6 T 425 RIAW So 07W 400,00	Beoring N Chs N T 92 S F 19W Wes! 485.00 T 92 S F 15W N0°30W 73,33 7333 T 933 N 9 Sec 25 N°29W 80,58 80,58 N 090W 80,50 80,50 N 13 N°20W 80,66 80,66 N 12 N°12W 80,46 80,46 N 12 N°12W 80,46 80,46 N 14 N0°12W 80,59 40,00 S8255E 81,70 S8255E 81,70 S8255E 81,70 S8255E 81,70 S8255E 82,70 S8255E 85.00 S8257E 85.00	Bearing N CAS CAS CAS CAS CAS CAS CAS	Bearing N S E Chs Chs Chs Chs Chs Chs Chs Chs

Mayhew H. Dalley U.S. Deputy Surveyor

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST	ГOF	· NA	M	ES.
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A list of the names of the individuals employed by	y <u>Mayhew H.Dalley</u>	
, United States Deput	,	
king the lines and corners described in the foregoing coundary of Township No.42 South, Rar Base and Meridian, in the State of I		
ring the respective capacities in which they acted:		
Albert C.Dalley,		, Chainman.
Heber Dalley,		
Daniel S.Macfarlane.		
David Dix,	e ' ,	. Moundman
Daniel S.Macfarlane,		Arman
Henry Houchen,		Amman
David Dix,		
FINAL OATH OF A		, Flayman.
We hereby certify that we assisted		
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parts or portions of the South Boundary		
.I4 West.		
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	of the	Salt
ke Base and meridian, in the State	of, which a	Salt re represented
ke Base and meridian, in the State of foregoing field notes as having been surveyed by hi	of, which as im and under his direction; and the	Salt re represented at said survey
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ke Base and meridian, in the State e foregoing field notes as having been surveyed by hi been in all respects, to the best of our knowledge ar or monuments established, according to the instruc-	of the	Salt re represented at said survey eyed, and the ates Surveyor
ke Base and meridian, in the State e foregoing field notes as having been surveyed by hi been in all respects, to the best of our knowledge ar or monuments established, according to the instruc-	of the	Salt re represented at said survey eyed, and the ates Surveyor
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ke Base and meridian, in the State e foregoing field notes as having been surveyed by his been in all respects, to the best of our knowledge and ar monuments established, according to the instructoral for the State of Utah. A Down Finited and sworn to before me this 21st.	of the of Utah , which as im and under his direction; and the not belief, well and faithfully survitions furnished by the United States Walley May Dalley and S. Mayanland, a. D. J. Mayanland, a. J. Mayanland, and S. Mayanland, a	Salt re represented at said survey eyed, and the ates Surveyor Chainman. Chainman. Moundman. Moundman. Axman.
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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR

L Whey H. Dalley	United States Deputy Ex-
professely awar that, in parameter of a contract received	from Jacob B Blatt
Unfort States Surveyor General for the State of	And the second s
23 mg - May of Jacovary	. I have well, faithfully, and truly, in my
perper person, and in strict conformity with the instruc-	tions furnished by the United States Ser
Vincent for the State of Utah the Manna	l of Surveying Instructions, and the laws of
United States, surreyed all these parts or partions of	the South Boundary of 10 Mass
ship NO.42 South, Range No. 14 West,	and the second s
manuscus esta fina fina forma esta esta esta esta esta esta esta est	
more and the second of the sec	The second secon
	of the Salt Lake
Base and meridian in the State	Utah which are represented in
terregular field notes as having been surveyed by me, and	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
swear that all the corners of said survey have been established	lished and perpetuated in strict accordance
the Manual of Surveying Instructions, and the special wri	
firmeral for the State of Utah and in the speci	
the foregoing are the original field notes of such survey;	
the prealty of perjury under the provisions of an Act of C	
the state of the s	Hayhew H Dalley
	United States Deputy Surve
	A Comment of the Comm
	worn to before me
	1 900.
	70 TO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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916	Coward Hendersay
APPROV	AL.
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OFFICE OF THE UNITED STATES	SURVEYOR GENERAL,
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The foregoing field notes of the survey of the	net Cour Sun of
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FIELD NOTES

of the survey of the

OF THE SURVEY OF THE
WEST, NORTH AND EAST BOUNDARIES
· . OF
•
TOWNSHIP NO 40 SOUTH DANCE NO 14 WINDER
TOWNSHIP NO.42 SOUTH, RANGE NO.14 WEST
· · ·
Of the Salt Lake Base and Meridian,
in the State of Utah.
AS SURVEYED BY
Mayhew H.Dalley , United States Deputy Surveyor,
r his Contract No. 224 , dated January 23, , 189 9
ry commenced
ey completed, 1899
6—161
Retracement long 10 06-41

Resumme 1841 18 few 2- 60. 68 V high

NAMES AND DUTIES OF ASSISTANTS.

	Albert C.Dalley,	Chainman.
	Neber Dalley,	Chainman.
************	Daniel S. Macfarlane,	Moundman.
	<u>Dav</u> id Dix	Houndman.
***************************************	Daniel S.Macfarlane,	Axman.
	Henry Houchen,	Axman.
•	David Dix,	Flagman.
• ••	· · · · · · · · · · · · · · · · · · ·	•
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Volume

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INDEX DIAGRAM.

Tow	nship		, Range	*****	
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7	8	D	10	11	12
18	17	16	15	14	13
19	20	21	22	28	24 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
. 30	20	28	27	26	25
81	82	83	84	85	80

Meanders Page.....

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PRELIMINARY OATHS OF ASSISTANTS.

	WE, albert la Dalley and Hoher & Monny
	do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level
	chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; t
	we will report the true distances to all notable objects, and the true lengths of all lines that we assist
	measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey west, North and East Boundaries of Township No. 42 South, Range No. 14 West, of the Salt Lake Base and Meridian, in the State of Utah.
	ally A Co Walley and
	O D D D D D D D D D D D D D D D D D D D
	How Dulley, Chainm
	Subscribed and sworn to before me this 12th.
	Mary 12 Mary
,	day of they , 1899) Senora Dolley
-	My Commission Expires March 20th, 1903 A story Pulling
	Of Swill Oublie
	WE, Samel & Machandane and Savid Dia
	do solemnly swear that we will well and truly perform the duties of moundmen in the establishm
	of corners, according to the instructions given us, to the best of our skill and ability, in the survey west, North and East Boundaries of Township No. 42 South, Range No. 14
	West, of the Salt Lake Base and Meridian, in the State of Utah.
	$\Phi_{\alpha} = 0$ Ω_{α}
	Daniel S. Macfarlace , Moundm
	David Dix., Moundm
	Subscribed and sworn to before me this 12th.
	day of May 1899
	Len va lo Maria
	Ny Commission Expires
•	March 20th, 1903 Wotary Cublic
	WE, Daniel & Macharland Henry Houchen
	do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corn
	and other duties according to instructions given us to the best of our skill and a little and a
	the West, North and East Boundaries of Township No. 42 South, Range No 14 West, of the Salt Lake Base and Meridian, in the State of Utah.
	d', 10.
	Daniel d'Macfarlanel, Arme
	Cenry Houchers Armo
	Subscribed and sworn to before me this 12th.
	Said of Mary
-	
	My Commission Expires March 20th, 1903 A D 16
	Holary Public
4	I, Savid Six do solemnly swear that I will well and tru
	perform the duties of flagman according to instructions given me, to the best of my skill and ability in t
-	survey of the West North and Rust Bound ming of Manuachin No. 40 3
Ka Ut	nge No. 14 West, of the Salt Lake Base and Meridian, in the State of an
	David Dix Flagma
;	Subscribed and sworn to before me this 12th
٠	day of May , 1899
•	Senon to Ma Mi
-	My Commission Expires Ment 20th 1992
	6-161. March 20th, 1903
,	$r = 2 \cdot n^{r_1} \cdot r_2 \cdot r_3 + r_4 \cdot r_5 \cdot r_5 + r_5 \cdot r_5 \cdot r_5 \cdot r_5 + r_5 \cdot r_5 $

BOOK A-282

Retracement of W.bdy.of T.42 S., R.I4 W.

Chains.

21.00

34.00

38.50 40.03

79.96

Retracements commenced May 26, 1899, and executed with a W. and L.E. Gurley Light Mountain Solar Transit ,for description of which see notes of Survey of

S.bdy.of Tp.42 S., R. I4 W., Book A. For a complete test of solar apparatus see notes.

of Survey of S.bdy.of T.42 S., R. I4 W., Book A. By surveying the S.bdy.of this Tp.as instructed.

I find that the exteriors of the Tp.will not close;

therefore, preliminary to commencing the subdivisions of the unsubdivided portion of the Tp., I re-

trace the old exteriors as follows: May 26, 1899: At the cor. of Tps. 42 and 43 S., R. I5

W., as re-marked by me and described in the Survey of the S.bdy.of T.42 S., R.I4 W., I set off 370 7' N.on the lat.arc;21° 11' N.on the decl.arc; and at 8h a.

m., l.m.t., determine a true meridian with the solar. Thence I run

N: bet.secs.3I and 36

stony and gravelly soil. .50 Top of ascent about IO ft.above the Tp:.cor

Ascend over broken clay and gypsum foot hills; in

S.E. and M.W.; thence descend . . . 6.63 The closing cor.of Tps.42 and 43 S., R. I4 W. 11.35 Wash I5 ft.wide and 4 ft.deep drains W. and heads :.

East about 30.00 chs. Hollow about 25 ft.wide and Io ft.deep drains N.750

Hollow or wash about 20 ft.wide and IO ft.deep foot of descent, drains S.700 W. and heads N.500 E. about 60.00 chs. About 75 ft.below the Tp.cor.

Thence ascend S.slope of high mountain. Trail hears N.E. and S.W.

Fall 41 lks.E.of the old I/4 sec.cor., which is a white sandstone 6xI0x6 ins.above ground, marked and

witnessed as described by the Surveyor general. Fall 70 lks.E.of the old cor.of secs.25,30,31 and 36 which is a white sand stone 6x8x4 ins.above ground, marked and witnessed as described by the surveyor.

Retracement of	To.vbd.W.	T.42 S., K.14	W. ZGOH CIHACA

Chains General.

chs.

27.50

38.93

67.00

N.W.slope.

The course of this line is therefore N. 0.0 30° W. This cor.is on the S.slope of high mountain about 200 ft.above hollow or wash at foot of mountain. Land broken, foot hills and mountainous.

Soil, clay and gypsum; gravelly and stony; 2nd. and 3rd.

Scattering greasewood and iron wood on last 45.00

Mountainous land on 79.96 chs.

From cor.of secs.25,30,31 and 36,1 continue retracement of W.bdy.of Tp.as follows:

N.on E.bdy.of sec.25. Ascend S.slope of high mountain; in gravelly stony

ground; through medium dense greasewood and iron wood undergrowth.

7.00 Top of ascent about I50 ft.above the sec.cor.bears N.W. and S.E.; thence descend into deep ravine. IO.75 Bottom of ravine about 75 ft.below the top, drains

> S.30° E.about 40.00 chs.; thence S.W.; heads N.30° W. about 10.00 chs.; thence ascend rapidly on S.W.slope

> of high mountain. Top of mountain about 275 ft.above the sec.cor.bears N.40° E.and S.40° W.; thence descend rapidly on N.W.

> slope. Fall 34 lks. E. of the old I/4 sec. cor., which is a

white limestone 5xI0x6 ins. above ground, marked and witnessed as described by the Surveyor General, This cor. is about 200 ft. below the top of mountain on

Bottom of ravine at foot of mountain about IOO ft. below the I/4 sec.cor., heads S.450 E.about 20.00 chs. and drains N.5.00 chs., thence N.250 W.; thence over

broken foot hills. 75.00 Enter sundy soil bears N.E. and S.W.; leave stony and

gravelly soil.

80.58 Fall 56 lks.E.of the old cor.of secs.19,24,25 and 30,

Chains, which is a quartz stone 4xI0x5 ins.above ground, marked and witnessed as described by the Surveyor General ... Cor. about 100 ft. below the 1/4 sec.cor. The course of this line is therefore N.00 24 W. Land mountainous and broken foot hills. Soil gravelly, stony and sandy; 4th. and 2nd. rate. Mountainous land on 80.58 chs.

> From the cor.of secs. 19,24,25 and 30,1 run N.on retracement line on E.bdy.of sec.24.

- 40.00 I find no trace of the I/4 sec.cor.
- 80.50 Fall 94 lks.E.of the old cor.of secs. 13, 18, 19 and 24, which is a .. white sand stone 6x12x6 ins.above ground, marked and witnessed as described by the Surveyor General.

Therefore the course of this line is N.00 40 I return to the cor.of secs. 19, 24, 25 and 30, and run $N...0^{\circ}$ 40. W.on a true line on E.bdy.of sec.24. Descend over broken sandy foot hills; in sandy soil;

undergrowth.

through scattering sage, greasewood and iron wood

- I5.00 Enter sandy, gravelly and stony soil, bears N.W. and . S.E.; leave sandy soil.
- Enter clay and gypsum soil, gravelly and stony, bears 19.00 N.W.and S.E.; leave sandy soil.
- Road bears N.800 W.and S.800 E. 20.00
- Trail bears S.40° W.and N.40° E. 30.60
- Road bears S.45°W.and N.25° E.; in hollow at foot of 30.70 foot hills, about 100 ft. below the sec. cor. drains N.E. to Washington canal.; ascend gradually.
- Top of ascent about 25 ft.above the road bears N.E. 36.00 and S.W.; thence descend on E.slope of rocky knoll, about I50 ft.high.
- Old road at N.E.foot of knoll, bears S.800 W. and N. 38.95 80° E.
- Set a gray limestone 30xI2x4 ins.,23 ins.in the ground 40.25 for re-established I/4 sec.cor., marked I/4 on W.face; dug pits I8xI8xI2 ins., N. and S. of stone 3 ft. dist.;

-

Retracement of W.bdy.of Tp.42 S., R.14 W.-Continued.

!	
Chai	ns and raised a mound of earth 3 $I/2$ ft.base, I $I/2$ ft.
	high, W. of cor.
40.9	3. S:bank of Washington canal about 8 ft.deep drains
	S.800 W.about 5.00 chs.; thence N.W.; water in canal
	about 6.ft.deep.
41.2	N.bank of canal.; thence descend gradually over sandy
	and gravelly soil, over bench on. S. side of river bot-
	tom.
47.58	Set a red sandstone 36xI6x6 ins.,27 ins.in the ground
	for witness corner of meander corner of fractional
	secs. I9 and 24, marked W.C. and M.C.on N., T.42 S.on
	S., R. 14 W. S. 19, ond E., and R. 15 W., S. 24 on W. faces;
	dug pit 36x36x12 ins.,8 ft.S.of stone; and raised a
	mound of earth and stone, 4 ft.base, 2 ft.high, S.of cor
	From which cor., a cottonwood 9 ins., diameter, N.630 W.
	8 I/2 lks.dist.; marked W.C., T.42 S., R.I5 W., S.24,
	M.C., B.T.
	A cottonwood I4 ins.diam., bears N.49 I/2° E.,59 I/2
	lks.dist.; marked W.C., T. 42 S., R. 14 W., S. 19, M.C., B.T.
47.65	
48.00	
	below the sec.cor., bears N.E. and S.W.; leave sandy
	and gravelly soil; enter loamy soil and dense willow
	undergrowth.
57.25	Road from Washington to Virgin City by way of Berry
	Spring bears N.80° W.and.S.80° E.
58.82	
	The point for Meander cor.of fractional secs. 19 and
	24 on S.bank of the Rio Virgin; leave dense willows.
59.00	Corner falls on changeable bank and cannot be set.
	S.side of water in Rio Virgin about 3.00 chs.wide,
64.00	shallow water , rapid current, sandy bottom, runs S.W.
	Set a yellow sandstone 24xI2x8 ins., I8 ins.in the
	ground, for meander cor.of fractional secs. 19 and 24 on H. bank of Rio Virgin, marked
İ	
	M.C. on S., T. 42 S. on N., R. I4 W. and S. I9 on E., R. I5 W.,
	and S.24 on W.faces; dug a pit 36x36x12 ins.,8 ft.N.
·	of stone; and raised a mound of earth, 4 ft. base, 2 ft.
64 70	high, N. of cor.
64.79	Foot of nearly perpendicular ledges on N. side of
•	river bottom, about I20 ft.high, bears N.700 E.and S. 700 W.
	10- 11

UUN MICUE

Retracement of W.bdy.of T.42 S., R.14 W.-Continued.

Chains.

I5.00

20.00

40,0I

53.56

Top of ledges bears 5.80° W.and N.80° E.; thence descend over top of high mountain range.

80.50 The cor.of secs. I3, I8, I9 and 24.

This cor.is about 75 ft.below the top of mountain.

Land broken foot hills, nearly level in river bottom, and mountainous.

Soil, sandy, gravelly and stony and loam; 2nd., 4th.,

and Ist.rate.

Dense willow undergrowth on IO.82 chs.

Mountainous land on 46.4I chs.

May 26,1899:At this cor.I.set off 210 12' N.on the decl.arc; and, at 11^h 57' a.m., l.m.t., observe the sun on on the meridian; the resulting lat.is 370 00' N.

T

From the cor.of secs.13,18,19 and 24 ,I run

N. on retracement line on E.bdy.of sec. I3.

Descend over top of high mountain range; in gravelly

and stony ground; through scattering greasewood and iron wood undergrowth

S.side of a deep ravine about I50 ft.deep and about

5.00 chs.wide, drains, S.700 W.to Rio Virgin.

N.side of ravine.

Fall 22 lks.E.of the old I/4 sec.cor, which is a black volcanic stone 4xI0x8 ins.above ground, marked

and witnessed as described by the Surveyor General.

Dug way road from Salt Lake City to Washington and St.George, bears N.700 E.and S.700 W.

54.75 Old dug way road bears N.E.and S.W.

56.60 Wash in hollow at foot of volcanic ridge about 250

ft.below the sec.cor., about 40 ft.wide and 6 ft.

deep, drains S.W.; thence ascend in sandy gravelly soil N.side of hollow.

60.00 Top of bench on N.side of hollow, about 50 ft.above

ravine, bears N.E. and S.W.; thence over nearly level

sandy bench.

67.50 Telegraph line bears N.E. and S.W.

80.06 Fall 46 lks.E.of the old cor.of secs.7,12,13 and 18,

40.2I

4I.50

soil.

Retracement of W.bdy.of T.42 S., R.14 W.-Continued...

Chains which is a white sandstone 5xI0x6 ins.above ground, marked and witnessed as described by the Surveyor . General.

The course of this line is therefor N.0° 20' W. Land mountainous and broken. Soil, sandy, gravelly and stony; 2nd. and 4th. rate. Mountainous land on 56.60 chs.

Ascend gradually over sandy and gravelly bench; in scattering sage, greasewood and iron wood undergrowth. Fall I4 links E.of the old I/4 sec.cor., which is

a broken sandstone with I/4 mark visible. I re-estab-

From the cor.of secs.7,12,13 and 18,1 run N.on retracement line on E.bdy.of sec.12.

- lish this I/4 sec.cor.at the same point as follows: Set a volcanic or lava stone 17x6x5 ins.,12 ins.in the ground, marked I/4 on W.face; dug pits I8x16x12; ins.N.and S.of stone,3 ft.dist.; and raised a mound of earth,3 I/2 ft.base,I I/2 ft.high, W.of cor.

 Top of ascent about IOO ft.above the sec.cor., bears
- Ravine in bottom of hollow about 25 ft.below the top, 6 ft.wide and 5 ft.deep,drains S.E.about 5.00 chs.; and joins main ravine.; thence ascend; leave sandy soil and enter clay and gypsum; continue in gravelly

N.W. and S.E.; descend into hollow.

- 51.00 A small spring bears E.about 50 lks.Enter low limestone reefs and broken ridges bears N.E.and S.W.. Leave gypsum soil.
- Fall 28 lks.E.of the old cor.of secs.1,6,7 and 12, which is a white sandstone 36x20x3 ins.,27 ins.in the ground, marked and witnessed as described by the Surveyor General.

 The course of this line is therefore N 00 Io' W

The course of this line is therefore N.0° 12' W. Land mountainous and broken ridges. Soil, sandy, clay and gypsum and gravelly and stony; 2nd.and 4th.rate.

Mountainous land on 80%6chs.

07

Retracement of W.bdy.of T.42 S., R.14 W.-Continued.

Chains

79.69

5.00

5.66

00.8I

40.54

Knowing that the N.W.cor.of the Tp.is other than indicated by the original field notes and that the topography bet.the cors.on the W.bdy.of sec.6 will be changed, I. begin at the cor.of secs.1,6,7 and 12 and run N., on a random line bet.secs 1 and 6

39.69 Intersect old I/4 sec.cor., which is a black lava

as described by the Surveyor General.

Intersect the N.bdy.of the Tp.6.50 chs.E.of the old

stone 4x7x7 ins.,above ground, marked and witnessed

cor. of Tps. 4I and 42 S., Rs. I4 and I5 W., which is a

black lava stone 20x12xIO ins, in a mound of stone,

marked and witnessed as described by the Surveyor General.

Thence from the old Tp.cor., I run
S.90 14 E.on retracement line bet.secs. I and 6.
Gradually descend over volcanic ridge; in stony
and gravelly soil; through scattering greasewood and

iron wood undergrowth.

N.side of ravine about 65 ft.wide and 30 ft.deep,

heads N.30° W.about I0.00 chs., drains S.30° E. S.side of ravine.

Top of ascent, about 75 ft. above the Tp.cor., bears S. 20^{0} E. and N. 20^{0} W.; descend gradualy over flat top of high sandstone mountain.

30.65 Trail bears 5.30° E.and N.30° W.

Thence I run

33.25 Trail bears S.30° E.and N.30° W. 35.85 Trail bears S.30° E.and N.30° W.

Intersect the I/4 sec.cor., already described.

South

Over top of high mountain; gradually ascend.

Continue in greasewood and iron wood undergrowth

Continue in greasewood and iron wood undergrowth.

24.60 Top of ascent about I25 ft.above the Tp.cor, bears N

50° E.and S.50° W.; thence descend gradually.

27.70 Top of ledges of sandstone mountain about 40 ft.below

where descent begins, bears N.50° E. and S.50° W.; thence descend abruptly over S.E. slope of mountain.

3I.70 Foot of mountain about 150 ft.below the top, bears

Retracement of W.bdy.of T.42 S., R.14 W.-Continued.

Chains N.E. and S.W.; thence descend more gradually over broken foot hills. Road bears N.E.and.S.W. . 34.30

39.69

The cor of secs. 1,6,7 and 12.

Land mountainous and broken. Soil, sandy, gravelly and stony; 3rd. and 4th.rate.

Mountainous land on 80.23 chs.

May 26,1899.

GENERAL DESCRIPTION.

Ror General Description see Subdivision notes

of this Township.

Retracement of N.bdy.of T.42 S., R.14 W.

Chains.

May 27, I899: At the cor. of Tps. 41 and 42 S., Rs. 14 and 15 W., heretofore described, I set off 370 12' N. on the lat.arc;210 21' N.on the decl.arc; and, at $7^{\rm h}$ a.m., l.m.t., determine a true meridian with the solar.

Thence I run E.on retracement line on the N.bdy.of the Tp., and at 40.00, 80.00, and I20.00 chs., find no trace of the I/4sec.and sec.corners; and at I63.40 chs., fall 24 lks. N.of the old cor.of secs.4,5,32 and 33, which is a gray sand stone 12xI0x5 ins.above ground, marked and witnessed as described by the Surveyor General. Thence I return to the old cor.of Tps.4I and 42 S., Rs. I4 and I5 W., and re-establish the N.bdy. of secs. 5 and 6, as follows: May 27,1899:At this cor. I set off 370 12' N. on the

lat.arc;210 21' N.on the decl.arc;and.at 10h a.m.. 1.m.t., determine a true meridian with the solar. Thence I run S.890 55' E.on a true line bet.secs.

6 and 3I.

2.64

40.85

Ascend gradually over volcanic ridges; in stony ground; through scattering greasewood, sage and iron wood undergrowth; also cactus undergrowth.

Top of ledge of volcanis cinder, about 75 ft.high, bears N.and S.; descend abruptly.

3.00 Foot of ledges bears NE.and S.W. A.chasm about ft.wide and 50 ft.deep drains 5.40° E.; descend over

S.E.slope of sand stone ridges. I9.50

Hollow about 50 ft.wide and IO ft.deep, heads N.60 E.about 20.00 chs., and drains S.500 W.; ascend on N.W.slope of sand ridge.

21.50 Trail bears N.60° E.and S.60° W.

33.00 Top of ascent about 75 ft. above the foot of ascent, bears N.200 E.and S.IOO W.; descend.

37.00 Ravine at foot of descent, about IO ft. wide and 6 ft. deep, drains S.; ascend gradually on S.W.slope,

Set a red sandstone 18x15x4 ins.,12 ins.in the ground, for re-established I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone 2 ft.base, I 1/2

ft.high, N. of 'cor. Pits impracticable.

BUSH ANIMS

Retracement of N.bdy.of T.42 S., R.14 V.-Continued.

		Retracement of N. bdy. of T. 42 S., R. 14 V. 2001 tillude.
	Chains.	
	52.60	Ravine about IO ft.wide and 6 ft.deep, drains S.40° W.
	53.00	Trail bears S.350 W.and N.350 E.
•	57.80	Re-cross ravine, about IO ft.wide and 6 ft.deep,
		drains N.80° W.
	64.00	Top of sandridge about IOO ft.above the $1/4$ sec.cor.,
		bears N.and S.;descend on N.E.slope ;through dense
		sage undergrowth and scattering oose; still in scat-
		tering greasewood and iron wood undergrowth and
		cactus.
_	81.70	Set a red sandstone 30x8x4 ins.,23 ins.in a mound of
		stone, for re-established cor.of secs.5,6,3I and 32,
		marked with 1 notch on W.and 5 notches on E.edges;
		and raised a mound of stone 2 ft.base, I 1/2 ft.high,
		V.of cor. : .
		This cor.is on E.slope of sandridge, about 100 ft.
	•	about IOO ft.below the top
		Land mountainous and broken.
ĺ		Soil, stony, gravelly and sandy; 4th. and 3rd.rate.
		Dense undergrowth on I7.70 chs.
		Mountainous land on 81.70 chs.
-		
		From the re-established cor.of secs.5,6,31 and 32,
		I run
		S.89° 55' E.on a true line bet.secs.5 and 32.
		Descend on E.slope of sandridge; in sandy and stone.
		ground; through scattering sage, oose and cactus un-
		dergrowth.
-	2.80	Ravine at bottom of sandridge, abou 50 ft.below the.
la de la constitución de la cons		sec.cor., about IO ft.wide and 5 ft.deep, drains S.
-	and white you	I5° E.; ascend.
1	5.80	Foot of sandstone bluff 25 ft.above ravine, bears
Bernar CE	* i	S.40° W. I.25 ch.and N.40° E. about 2.00 chs.
The state of the s	i	Top of bluff about 25 ft.above the foot bears N.400
	P. S. C. Company	E.and S.400 W. idescend.

10.30 Bottom of hollow at foot of sandstone bluff, about

Road from Washington bears 8.20° W.and N.

40 ft.below the top, drains $5.350 \cdot W$.

Retracement of N.bdy. of Tp. 42.S., R. 14 W.-Continued.

Chains. Thence ascend over broken sandridges.

22.80 Top of ascent about 100 ft above the

22.80 Top of ascent about IOO ft.above the sec.cor., bears

N.E.and S.W.; thence over nearly flat top of sandstone

mountain.

mountain.

40.85

8I.70

34.65 Cut off road from Washington to Leeds, bears S.W. and and N.E.

Set a red sandstone 24xI0x5 ins.,18 ins.in the ground for re-established I/4 sec.cor.,marked I/4 on N.

face; and raised a mound of stone 2 ft.base, I I/2 ft. high, N.of cor. Pits impracticable.

4I.20 Commence steep descent over broken sandstone ledges, which bear N.E.and S.W.

Foot of sand ridgeabout 75 ft.below top of ledges, bears N.E.and S.W.; thence over broken sandridges.

53.30 Road bears N.and S.IO E.
55.95 Trail bears S.250 E.and N.250 W.

57.30 Ravine about 50 ft.wide and 40 ft.deep, drains S.

62.80 Hollow about 100 ft.wide and about 40 ft.deep, drains 5.300 E.

Land mountainous and broken ridges.

Soil sandy and stony; 4th.rate.
Mountainous land on 81.70 chs.

.

The cor. of secs. 4,5,32 and 33.

From the cor.of secs.4,5,32 and 33,I continue retracement of N.bdy.of Tp.as follows:

E.bet.secs.4 and 33.

Ascend over broken foot hills and rocky ridges; in clay, gravelly and stony ground; through scattering sage, iron wood and cactus undergrowth.

- 9.00 Wash 12 ft.wide and 4 ft.deep drains S.E.
- 11.40 West foot of rocky rideg about 50 ft.above the sec. cor., bears N.20° E.and S.20° W.; ascend more rapidly.
- 19.40 Top of ridge about 100 ft.above the foot, bears N.200
- E.and S.20° W.; descend
- 35.00 Bottom of hollow at E.foot of rocky ridge, drains S.200 E.foot of ridge bears N.200 W.and S.200 E. ascend.

Chains.	
36.80	Top of main ridge about 50 ft.above bottom of hole
a de la constante.	low, bears S. 150 E. and H. 150 W.; thence descend on E.
, , ,	slope of ridge.
41.10	Pall 2 lks.H.of the old I/4 sec.cor., which is a gray
Table (1) Strange (2)	sandstone, 6xI0x6 ins.above ground, marked and wit-
	nessed as described by the Surveyor General.
47.35	Road bears Mir.and Siwa to 12 4 5 5 5 12 12 12 12 12 12 12 12 12 12 12 12 12
64.40	Poot of ridge about 100 ft.below the top, bears N. 200
Tilde to the second sec	W.and S.200 E.; ascend over broken ridges on Harris-
	burg Bench. 12 75 Jan 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
71.30	Telegraph line bears N.E. and S.W. A.
82.40	Pall 48 lks.S.of the old cor.of secs.3,4,33 and 34,
	which is a gray sandstone 12x14x4 instabove ground
	marked and witnessed as described by the Surveyor
	General.
	The course of this line is therefore 11.890 40. E.
Life Life and Life an	Land mountainous and broken ridges . A contract the
	Soil, sandy, gravelly clay and stony; 2nd, and 4th rate.
	Mountainous land on 82.40 chs.
	May 27,1899:At this cor. I set off 21 22 N. on
	the decl.arc; and, at 11h 57m a.m., 1.m.t., observe the
	sun on the meridian; the resulting lat. is 370 12
I i	

From the cor.of secs. 3, 4, 33 and 34, heretofore described, I continue retracement of Wibdy of Tp follows:

Fast, bet. sees. 3 and 34.

Over Harrisburg Bench, nearly level; in clay, sandy gravelly and stony ground; through scattering sage, iron wond and mervice-berry undergrowth 2 23815

- Road from Salt Jake City to Washington and St. George
- 12.20 Wash 6 ft. wide and 6 ft. deep, drains 3.300 W.
- 12.70 Boad from Salt Lake City to Wanhington and St. George bears N.309 Elund S.300 West Sec.
- West foot of burnt mandatone mountain and S. 400 V.; ascend N.V. slope of mountains

Retracement of N.bdy.of T.42 S., R.I4 W.-Continued.

Chains. 27.80

Top of mountain about 50 ft.above the foot, bears N. 40° E.and S.40° W.; descend abruptly over broken ledges on S.E.slope of mountain.

4I:24

Fall I4 lks.S.of the old I/4 sec.cor., which is a gray sandstone 9xI0x4 ins.above ground, marked and witnessed as described by the Surveyor General. This cor. is in a ravine at the foot of the mountain, which bears N.E. and S.W., about 200 ft. below the top. Descend over broken clay and gypsum foot hills.

82.70

Fall 7 lks.N.of the cor.of secs.2,3,34 and 35, which is a gray sandstone 7xI0x5 ins.above ground, marked and witnessed as described by the Surveyor General. The course of this line is therefore 5.890 57' E. Land on Harrisburg bench, rolling; E. of bench Mountain ous and broken foot hills. Soil, clay, sandy, stony and gypsum; 3rd. and 4th.rate. Mountainous land on 59.50 chs.

From the cor.of secs.2,3,34 and 35, heretofore described, I continue retracement of N.bdy.of Tp.as follows:

E.bet.secs.2 and 35.

Over broken clay and gypsum foot hills and ridges; with numerous small ravines and hollows draining S.E.and S.to the Virgin River; through scattering sage, greasewood and iron wood undergrowth.

41,24

Fall 6 lks.S.of the old I/4 sec.cor., which is a red sand stone 8x12x4 ins.above ground, marked and witnessed as described by the Surveyor General. At W.foot of sandstone mountain which bears M.70° E. and S.700 W., about IOO ft. above the sec. cor; ascend rapidly on N.W.slope.

47.00

Top of sandstone and granite mountain about 200 ft. above the foot, bears N.600 E.and S.600 W.; descend rapidly on S.E.slope.

66.00 East foot of mountain about I75 ft.below the top, and enter field and pasture bears N.400 E.and S.400 Retracement of N.bdy.of T.42 S., R.14 W.-Continued.

Chains W. Irrigation ditch 2 ft.wide, I ft.deep drains S.300 W. 69.20 Irrigation ditch about 2 ft.wide and 2 ft.deep, 74.90 drains S.IOO W. Leave farm and enter pasture land bears N.200 and S. 77.00 20° W. 80.22 Fence on E.side of pasture bears N.100 E.and S.100 \mathbb{V} . Set a volcanic stone 30xI5x8 ins.,23 ins.in the 80.38 ground, for Heander cor.of fracl.secs.2 and 35, marked M.C.on E., T.4I S.and S.35 on N., R.14 W.on W., T.42 S. and S.2 on S.faces; dug pit 36x36x12 ins., 8 ft.W. of stone; and raised a mound of earth and stone 4 ft. base, 2 ft.high W.of cor . On W.bank of the Rio Virgin. Before permanently establishing this Heander cor. I determine the true line and placed the cor.as descri bed on the true line 7 lks.S.of my random line. Thence along the river bottom. Edge of water on W.side of the Rio Virgin, 160 lks. 83.60 wide, with low bank on W. side, runs S.W., water about I I/2 ft.deep, rapid current, fresh water, gravelly bottom, rises and falls very suddenly. 85,00 Point for cor. of secs. 1, 2, 35 and 36, falls in the E. edge of the river and is missing., Atil.00 ch. E. of this point I find the old witness cor.of secs.1,2,35 and 36 8 lks.s.of my line, which is a blue boulder stone 6xI0x6 ins.above ground, marked and witnessed as described by the Surveyor General. The falling therefore is 8 lks.N.of the point for cor.of secs. 1,2,35 and 36, in the river, and the course of the true line bet.secs.2 and 35 is S.890 57 E. Land broken foot hills, ridges and mountainous of ... W.side of River bottom; in river bottom nearly level. Soil, clay, gypsum, gravelly and stony on W.66.00 chs; 3rd.and 4th.rate. In farm and pastur sandy and loamy; 2nd.and Ist.rate. Mountainous land on 66,00 chs. . Note: The line runs through the center of Workman's, farm and pasture, which bears M.300 E.and S.300 W.

about 20.00 chs, lying between the Hountain range

on the N.W. and the Rio Virgin on the S.E.

Retracement of N.bdy.of T.42 S., R.I4 W.-Continued.

Chains. From the point for cor.of secs.1,2,35 and 36, in E.edge of the Rio Virgin, I.00 ch. .. of the witness cor., heretofore described, I continue retracement of N.bdy.of Tp.as follows : E.bet.secs.1 and 36. In Virgin River. .20 E.edge of Rio Virgin. E.bank of the Rio Virgin. The point for Meander cor. .30 falls at foot of .caving bank about 8 ft.high and cannot be set. .40 Enter pasture and field in river bottom bears N.200 E.and S.200 W. .55 Set a volcanic boulder stone 24x16x12 ins., I8 ins. in the ground, for witness cor.for Meander cor.of fractional secs.l and 36, marked W.C. and M.C. on W. T.41 S.and S.36 on N., R. J4 W. on E., and T.42 S., S. J. on S.faces; dug pit 36x36x12 ins., 8 ft.E.of stone; and raised a mound of earth, 4 ft.base, 2 ft.high, E. of cor. I,00 The witness cor.for cor.of secs 1,2,35 and 36, heretofore described. Thence over almost level river bottom in pasture and farm land; in rich sandy soil; through scattering sage, iron wood and thornwood or mosquite. Road bears N.100 W.and S.100 E. 8.55 W.foot of volcanic ledges on E.side of river bottom, 19.80 bears M. and S.; leave field and pasture and ascend abruptly over volcanic ledges. 21.55 Top of ledges about 150 ft.above the foot, bears N. 200 W.and S.IOO E; thence descend over broken reefs and ridges on top of volcanic bench. 40.09 Fall 4 lks. N. of the old I/4 sec. cor., which is a lava cinder 6x8x4 ins., above ground, marked and witnessed as described by the Surveyor General. Corner about 50 ft.below top of ridge. Thence ascend gradually.

- 56.95 Road bears N.W. and S.E.
- 63.20 Old irrigation ditch drains 5.750 W.
- 63.35 Road from Virgin City to farms in river bottom and and Washington, bears S.E. and N.W.
 - 80.20 Fall 7 lks.N.of the cor.of Tps.4I and 42 S.R.14 W.-

Retracement of N.bdy. of T.42 S., R.14 W.-Continued.

Chains. being the N.E.cor.of T.42 S., R.14 W.-, which is a black lava cinder, 6x12x10 ins.above ground, marked and witnessed as described by the Surveyor General. The course of this line is therefore 5.890 57' E Land in river bottom nearly level; on bench and ridges

> Soil, sandy and loamy in river bottom; 1st. and .2nd. rate; on ridges, clay, gravelly and stony; 4th. rate.

Mountainous land on 60.40 chs.

mountainous and broken.

May 27, 1899...

Retracement of E.bdy.of T.42 S., R.14 W.

Chains. May 27, 1899: At the cor. of Tps. 41 and 42 S., R. 14 W. N.E.cor.of T.42 S., R. I4 W.-heretofore described, 6.80 chs. S. 00 29' W. of the closing cor.of Tps. 4I and 42 S., R. I3 W., I set off 370 12' N.on the lat. arc;210 25' N.on the decl.arc; and at 5h p.m., l.m.t., determine a true meridian with the solar. Thence I run S.00 7' W.on a blank line bet.secs. I and 6. Fall 04 lks.E.of the old.I/4 sec.cor., which is a 41.20 volcanic stone I0x8x7 ins.above ground, marked and witnessed as described by the Surveyor General. Fall 07 lks.E.of the closing cor.of secs.6 and 7, 74.82 T.42 S., R.I3 W., which is a lava stone in place 20x20 xI2 ins., above ground, with a cross(X) at exact cor. point, marked and witnessed as described by the Surveyor General. The course of this line is therefore S.OO ID W. Thence I run N.00 10' E.on a true line on E.bdy.of sec.I. Ascend over broken lava ridges and foot hills; through scattering sage, greasewood, castus and iron wood undergrowth. 27.30 Road bears N.W.and S.E. 33.62 The old I/4 sec.cor., heretofore described on line. 34.82 S.foot of spur of mountain about 50 ft.above the closing sec.cor., bears E.and W.; rapid ascent on S. slope of spur. 39.64 Road on top of spur of mountain bears E.and N.W.; spur of mountain bears E.and W. About 50 ft.above foot of spur.; descend on N.slope of spur. Set a gray sandstone I2xI0x5 ins.,8 ins.in the 40.00 ground, for I/4 cor.of sec. I, marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W.of cor. Pits impracticable. 43.82 N.foot of spur of volcanic mountain, about 50 ft. below the top, bears N.700 E. and joins main ridge or mountain at about IO.00 chs.dist., and S.700 W. about 5.00 chs.to W.point of spur.; thence over rolling and broken volcanic bench with drainage to W. and M.W.

Wash about IO ft.wide and 4 ft.deep, drains W.

47.82

SOS MEDE

Retracement of E.bdy.of T.42 S., E.14 W.-Continued.

7-1-1

70.03 Foad from Virgin City to Washington bears E. and S. 700 W.

74.82 The cor.of Tps.41 and 40 S.,R.14 W.,herotofore described.

Land broken ridges and foot hills, mountainous and broken rolling beach.

soil, clay, stony sandy and gravelly; 3rd, and 4th, rate.

No timber.

Undergrowth, sage, greasewood, cactus and iron wood.

Mountainous land on 43.82 chs.

May 27,1899.

GENERAL DESCRIPTION.

For General Description see Subdivision notes of this Township.

Maybew H. Dalley. U.S. Deputy Surveyor

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PAGE

1 4406

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employ	yed by Mayhew H.Dalley
, United States	Deputy Surveyor, to assist in running, measuring, and
_	going field notes of the survey of the West, North
ving the respective capacities in which they act	
Albert C.Dalley,	, Chainman.
Heber Dalley,	, Chainman.
Daniel S.Macfarlane.	1
David Dix,	, Moundman : ::,, Moundman.
Daniel S.MacTarlane,	4 mm an
Henry Houchen,	
David Dix,	, Haman.
	OF ASSISTANTS.
We hereby certify that we assisted	Mayhew H.Dalley
	, United States Deputy Surveyor, in surveying all
	nd East Boundaries of Township No.42
outh, Range No.14 West,	
•	
	of the Salt Lake
	•
e foregoing field notes as having been surveyed	by him and under his direction; and that said survey
peen in all respects, to the best of our knowled	dge and belief, well and faithfully surveyed, and the
	structions furnished by the United States Surveyor
ral for the State of Utah.	Ulert & Dalley, Chainman.
	Chainman.
	Fleber Dalley, Chainman.
	Daniel S. Macfarlane, Moundman.
	David Joux, Moundman.
	Daniel S. Macfarlane, Arman.
<u>-</u>	essery deauchers, Arman.
·	David. LOw., Flagman.
ribed and sworn to before me this 21st.	
ay of, July, 189 9.	Servia & Dallay
My Commission Expires - COCODO My Commission Expires - COCODO My Commission Expires	Notary Public, Iron County, Utah.
	, and a modern of the south

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

		, st
I. Mayhew H.D	alley	United States Deputy Surveyor,
columnly empay that in nursuance of a co	ontract received from	19COD P.DIGIL
United States Surveyor General for 50	e State of ovair	, bearing date of
23rd. day of January	, 1899, I have we	ell, faithfully, and truly, in my
proper person, and in strict conformity	with the instructions furnis	hed by the United States Surve
General for the State of Utah Religiously with the State of Utah	the Manual of Surveyi	ing Instructions, and the laws of
ominal binner surveyed an inote pairs o	11/11 (10)11.	
oundaries of Township No. 4	2 South, Range No. 14	west, or the
		of the Salt Lake -
Base and meridian, in the St oregoing field notes as having been surv wear that all the corners of said survey	ate of Utah	, which are represented in-
retrained field notes as having been surv	eyed by me, and under my	lirection; and I do further sole
wear that all the corners of said survey	have been established and p	erpetuated in strict accordance "
the Manual of Surveying Instructions, an	d the special written instruc	tions of the United States Surve
General for the State of Utah	and in the specific manner	described in the field notes, and
General for the State of Utah. The foregoing are the original field notes	of such survey; and should	any fraud be detected, I will su
the penalty of perjury under the provisio	ns of an Act of Congress app	proved August 8, 1846.
	Mayhe	w H. Dalley United States Derfity Surve
•	/	United States Devity Survey
Subscribed by said Hayhew H.Dall	ev and sworn to be	fore me)
	. 1901 HHH 1-900	· ·
this day of The		
	Gawa	ad Huderson
000000 0 State	Poll	6 0/9,
000000	H.D.Occorey	or recealfull
	//	
	APPROVAL.	
OFFICE OF THE U	UNITED STATES SURVEYO	^
	Valh date belo	Elat Obuil 191000 000
deliscour	we of mon	January 1900
The foregoing field notes of the sur	A-E ()	undang occured
Whaganes land reque	ray of the Arch	Voast Brund
of Voreneshef & Doub	Money Ste St.	est of the Jalk
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under his contract No.	cecer or	192
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titically examined, and the necessary e		made, the said field notes, and
surveys they describe, are hereby approve	vil.	16/0 /11
	····· Pau	varos rumerson.
·		United States Surveyor ()
I certify that the foregoing transcr	ipt of the field notes of the a	bove-described surveys in
		original notes on file in this office
		,,
E-m212		United States Surveyor Gen.

21' , att

. State of Utah.

County or Washington.

Woodbury being duly Sworn according law; says: that I will well and faithfully execute the duty of Chainr that I will level the Chain upon even and uneven ground and will plum! tally pins either by sticking or dropping the same : that I will repo the time and distance to all notable objects and the true length of all lines: that I will assist in measuring to the best of my skill and a ity and in accordance with the instructions given me in the survey of Township Forty two (42) South of Range Fourteen (14) West : A-Porty two (42) South of Range Fifteen (15) West and Township Forty two base and (42) South of Range Sixteen (16) West-of-galt Bake Meridian:

SS.

max Or oodbury.

Subscribed and Sworn to before me this 14th, day of June A. D.

Ay Commission Expires sept 30th 1902.

WE, albert C. Dalley and Heber Dalley
elemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the
n over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that
will report the true distances to all notable objects, and the true lengths of all lines that we assist in
Meander Lines of Township No. 42 South Range No. 14 West, of the tLake Base and Meridian, in the State of Utah.
albert 6 Dalley, Chainman.
Heber Dalley, Chainman.
cribed and sworn to before me this 12th
day of Lenora & Dally
My Commission Expires March 20th, 1903 Motary Cublic
Daniel & Marfarland David Six
plemnly swear that we will well and truly perform the duties of moundmen in the establishment
orners, according to the instructions given us, to the best of our skill and ability, in the survey of e Meander Lines of Township No. 42 South, Range No. 14 West, of the lt Lake Base and Meridian, in the State of Utah.
Daniel & Macfarland, Moundman.
David Dix., Moundman.
cribed and sworn to before me this 12ths
lay of May, isog
My Commission Expires March 20th, 1903 Autary: Public
WE, Daniel & Macfarlane and Honry Houchen
lemnly swear that we will well and truly perform the duties of axinen in the establishment of corners
ther duties, according to instructions given us, to the best of our skill and ability, in the survey of Meander Lines of Township No. 42 South, Range No. 14 West, of the take Base and Meridian, in the State of Utah.
Daniel S. Mactarlano Arman
Henry Houcken, Amman.
cribed and sworn to before me this 12th
ay of May, 1899 Senora & Dally
My Commission Expires March 20th, 1903 Motury Gublic
I, do solemnly swear that I will well and truly
rm the duties of flagman according to instructions given me, to the best of my skill and ability, in the
y of the Meander Lines of Township No. 42 South, Range No. 14 West of Salt Lake Base and Meridian, in the State of Utah
David Dury, Flagman.
ay of May 1899
Service Dolley :-
My Commission Expires March, 20th, 1903 March, 20th, 1903

do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the the Meander Lines of Township No. 42 South, Range No. 14 West, of the Salt Lake Base and Meridian, in the State of Utah.

Helix Dally, Flagman

Subscribe and sworn to before me this. May., 1899

hiy Commission Expires

Notary Public, Iron County, Utah

INDEX DIAGRAM.

7	ownship		, Range		
G	5	4	9	2	1.01
7	8	9	10	11	12
. 18	17	16	15	14	13
19	20	21	22	53	24
30	20	28	27	26	25
81	82	33	84	85	80

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

		.,.
WE, albert Co. Dalley	L and Heber Salley	′
	y execute the duties of chainmen; that we will level the	
n over even and uneven ground, and plumb th	to tally pins, either by sticking or dropping the same; that	
rill report the true distances to all notable of	bjects, and the true lengths of all lines that we assist in	
suring, to the best of our skill and ability, and	in accordance with instructions sires we in the	
se and Meridian, in the State of	1.42 South, Range No. 14 West, Salt Lake	
·	albert to Dalley Chairman.	
	Heber Dalles, Chainman.	
and sworn to before me this 124		
lay of May 1899	Ø{ /	
, 18:19	Senira & Drille	
STIAL My Commission Expires March 20th, 1903	Notary Publica	
W. Daniel & Macfarlan	Saile Co	
<i>1</i>	perform the duties of moundmen in the establishment	
rners, according to the instructions given u	is, to the best of our skill and ability, in the survey of 42 South, Range No. 14 West, of the	
t Lake Base and Meridian, in 1	42 South, Range No. 14 West, of the he State of Utah.	
d.	that I & May 1000	
ىم.	inul D. Macfarlance, Moundman.	
	LYOVIO LULL: , Moundman.	
cribed and sworn to before me this 12 th	Ű.)	
ny of	S I R A M	
My Commission Expires	Jenora Dalley	
March 20th, 1903	Notary Oublic	
Wr. Daniel S. Magla	clanelin Henry Houchen	
	form the duties of axmen in the establishment of corners	
ther duties, according to instructions given Subdivisions of Township Ho.4 Lake Base and Heridian, in th	us, to the best of our skill and ability, in the survey of 2 South, Range No. 14 West/of the c. State of Utah.	
	Daniel & Martarland Joman.	
	Menry Houchess, Arman.	
ribed and sworn to before me this! 2018	٤. }	
ny of May, 1899	Some lo Or M	
My Commission Expires	Astary Public	
新年が研究 March 20th, 1903	Novary Oublies	
i, David Dix	, do solemnly swear that I will well and truly	•
	tions given me, to the best of my skill and ability, in the	
y of the subdivisions of Towns e Salt Lake Base and Meridian	hip No.42 South, Range No.14 West,	
	David Dux, Magman.	
bed and sworn to before me this 1214)	, ·
y of May , 1899	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	٠
My Commission Expires	Senora O Dally	s A
March 20th, 1903	Notary Public	

INDEX DIAGRAM.

Tow	nship		, Range		
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20	29	2 4	27	TO	25
2.3	8:	53	34	82	80

Meanders Page.....

NAMES AND DUTIES OF ASSISTANTS.

<u>v</u>	Albert C.Dalley,	Chainman.
		, , ,
/	Heber Dalley,	Chainman.
1	Mar Woodburg Daniel S. Macfarlane,	Chainman
V	Daniel S.Macfarlane,	Moundman.
. , .	the state of the s	
✓	David Dix	Moundman.
	••	

Daniel S.Macfarlane,

David Dix,

V Gelw Valley

Axman.

Tiled Wed 3. 1900

K.3.13.

Survey completed.....

A-282 **BOOK**

FIELD NOTES

OF THE SURVEY OF THE

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dated January 23rd. , 189 Survey commenced lay

June

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Subdivisions of T.42 S., R.14 W.

Chains Surve

19.00

3I.00

38.00

40.00

Survey commenced May, 29, 1899, and executed with a W.and L.E.Gurley Light Mountain Solar Transit for description of which see notes of S.bdy.of Tp. 42 S. R.14 W., Book A.

May 29,1899:Before commencing the subdivisions of the unsubdivided portions of the Tp.,I return to the meridian established May 23,1899, from Polaris, at the cor. of Tps. 42 and .43 S., R. I3 and I4 W., heretofore described. At 7^h a.m.,l.m.t.,I set off 370 7' N. on the latitude arc; 210 40' N. on the decl.arc; and test the adjustments of my solar, finding it gives the same

meridian as before and the adjustments are correct.

I commence at the cor.of secs.1,2,35 and 36,on the S.bdy.of the Tp., which I established May 25,1899.

Thence I run

North,00 6 E., bet.secs.35 and 36.

Descend gradually over top of sandstone mountain sloping N.W.; through dense sage, greasewood and cactus undergrowth; in stony and sandy soil.

Sandstone butte about I50 ft.long, and 25 ft.high, bears E.about 2.00 chs.

20.00 Enter sandstone reefs bears N.E.and S.W.

26.00 Sandstone butte about IOO ft.long and 25 ft.high,
bears E.about 6.00 chs.

Sandstone butte about I50 ft.long and 40 ft.wide, bears E.about 5.00 chs.
South foot of sandstone butte about I20 ft.long N.

and S., and 20 ft.wide, and 40 ft.high, on the line, bears E. and W.

Set a red sandstone 18x14x7 ins,12 ins.deep in a mound of stone, for I/4 sec.cor., marked I/4 on W.face;

and raised a mound of stone ,2 ft.base, I I/2 ft.

high, W. of cor. Pits impracticable. Hard sandstone surface prevented setting the cor. stone deeper.

This cor. is about IOO ft. below the sec. cor. on sandstone reefs. sloping N.W.

47.00 Foot of sandstone reefs in bottom of hollow about 75 feet below the sec.cor., bears N.400 E.and S.400 W.; hollow drains N.400 E.; thence ascend S.E.slope of hollow.

48.IO Top of hollow about 25 ft.above the bottom, bears

Subdivisions of T.42 S., R.14 W.-Continued.

	Subdivisions of T.42 S., R.14 WContinued.
Chains.	N.40° E.and S.40° W.; thence descend over sandy, stony
62.00	ground. Top of perpendicular ledges on S.side of hollow or
	chasm, about 50 ft.below the top of hollow, bears N.E. and S.W.; thence descend abruptly into hollow.
64.00	Ravine in bottom of hollow about 35 ft.below the top
	of ledges, about 6 ft.wide and 6 ft.deep, drains N.500 E.; ascend from ravine on S.E.slope of hollow.
6.6.00	Top of ledges on N.side of chasm or hollow, about 25
66.00	ft.above the bottom, bears N.500 E.and S.500 W.; thence
	descend over sandstone reefs.
 80.00	Set a redsandstone 26xI0x8 ins.,20 ins.deep in a mound of stone, for cor.of secs.25,26,35 and 36, marked
	with I notch on the S.and E.edges; and raised a mound
	of stone,2 ft.base,I I/2 ft.high,W.of cor.Pits im-
	practicable.Hard sandstone surface prevented setting
	the cor.stone deeper.
	This cor.is about 50 ft.below where descent begins .
	over sandstone reefs.
	Land mountainous, and broken.
	Soil, sandy and stony; 3rd. and 4th. rate. No timber Mountainous land and dense undergrowth on 80.00 chs.
	MOUNTAINOUS TAIM AND DENSE UNDER GIOVEN ON CO.CO CITS.
	East on a random line bet.secs.25 and 36.
40.00 80.04	Set temp.I/4 sec.cor. N.0007' E. Intersect E.bdy.of Tp.,2I lks.a.of the closing cor.of
	secs.30 and 31, T. 42 S., R. I3 W., which is a red sand-
	stone 4x12x5 ins.above ground, marked and witnessed as
	described by the Surveyor General.
	I obliterate all marks pertaining to the closing cor.
	and re-mark this stone for cor.of secs.25,30,3I and
	36, with I notch on the S.and 5 notches on the N.edges;
	dug pits 18x18x12 ins., in each sec., 5 I/2 ft.dist; and
	raised a mound of earth, 4 ft.base, 2 ft.high, W.of cor.
	I destroy all traces of the old cor.of secs.25,30,31
	and 36, which bears 5.00 07'W, 21.97 chs.dist.
	North, 890 51' W.on a true line bet.secs.25 and 36.
	not on, os of ".on a true time bet, secs.25 and 36

Subdivisions of T.42 S., R.14 W.-Continued.

Chains. Over almost level ground, gently sloping N.; in rich sandy soil; through dense sage, greasewood and cactus undergrowth. 38.IO

Top of ascent about IOO ft.above the sec.cor., bears N.300 E.and S.300 W.; descend gradually over rolling sand hills and ridges.

40.02 Set a gray sandstone 22x18x7 ins., 17 ins.in the ground, for I/4 sec.cor.; marked I/4 on N.face; dug.pits 18x18 x12.ins., E. and W. of stone 3 ft.dist.; and raised a mound of earth 3 I/2 ft.base, I I/2 ft.high, N.of cor.

A sandstone butte about 40x20x10 ft., bears S.about 2.00 chs.dist.from cor. 43.40 Foot of sandridge in bottom of hollow about 25 ft.

below the I/4 sec.cor., bears N.400 E.and S.400 W.; hollow drains, N. 40°. E.; thence, ascend over broken sandstone reefs.and ridges...

Top of sandstone ridges about I50 ft.above the I/477.20 sec.cor., bears N.400 E.and S.400 W.; thence descend gradually over top of ridge. 80.04 $^{\mathrm{Th}}\mathrm{e}$ cor.of secs.25,26,35 and 36.Cor.is about 25 ft.

> below top of sandridge on N.slope. Land almost level, rolling sandhills and mountainous land.

Soil, sandy, and stony; 2nd. and 4th. rate. No timber. Dense sage, greasewood service berry and cactus un-

Mountainous land on 36.64 chs. Canaigara root or sour dock grows abundantly in N.E.

dergrowth on 80.04 chs.

I/4 of sec.36, and in S.I/2 of sec.25. May 29, 1899: At this cor. I set off 210 41' N.on the decl.arc; and, at 11h, 57' a.m., 1.m.t., observe the sun on the meridian; the resulting lat. is 370 8' N.

North,00 6' E., bet.secs.25 and 26. Descend rapidly over broken sandridges, on. N.W. slope;

through dense sage and greasewood undergrowth; in stony and sandy soil.

20.54 Foot of sandstone mountain or sandridges about 200 Subdivisions of T.42.S., R.14 W.-Continued.

Chains. ft.below the sec.cor:, bears N.E. and S.W.; thence descend gradually over rolling sandhills; in rich sandy Road from Washington to the Canaigara grounds, in S.E. 38.54 cor.of Tp., bears N.400 W.and S.400 E. Set a redsandstone 30x12x6 ins., 23 ins.in the ground, 40.00 for I/4 sec.cor., marked I/4 on W.face; dug pits 18x18 x12 ins., N. and S. of stone, 3 ft.dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2.ft.high, W.of cor. Enter dense cactus undergrowth bears N.and S.; still in sage and greasewood. Set a red sandstone 30x14x4 ins., 23 ins.in the ground, 80.00 for cor.of secs.23,24,25 and 26, marked with 2 notches on on the S.and I notch on the E.edges; dug pits.18x18x12 ins., in each sec., 5 I/2 ft.dist.; and raised a mound of earth, 4 ft.base, 2 ft.high, W.of cor. Land mountainous and rolling sand hills. Soil, sandy and stony, and rich sandy soil; 4th, and 2nd. No timber. rate. Dense greasewood, sage or cactus undergrowth on 80.00 Mountainous land on 20.54 chs. S.890 51' E.on a random line, bet secs.24 and 25. 40.00 Set temp. I/4 sec. cor. N.OO ON'E. 79.88 Intersect the E.bdy.of the Tp.11 lks. . . of the closing cor.of secs.19; and 30; T.42 S., R.13; W., which is a black lava stone 5x6x6 ins.above ground, marked and wiltnessed as described by the Surveyor General. I obliterate all marks pertaining to the closing cor., and re-mark this stone for cor.of secs.19,24,25 and 30, with 2 notches on the S. and 4 notches on the N. edges; dug pits 18x18x12 ins., in each sec., 5 I/2 ft. dist.; and raised a mound of earth 4 ft.base, I 1/2 ft. high, W. of cor. I obliterate all traces of the old cor. of secs.19,24,25 and 30, which bears S.0007 W., 19.51 chs.dist.from the new cor.

May 29, 1899: At 4h p.m., 1.m.t., 1 set off 370 9' N.on

Subdivisions of T.42 S., R.14 W.-Continued. the lat.arc;21043' N.on the decl.arc; and determine a Chains. true meridian with the solar at the cor.of secs.19, 24,25 and 30. Thence I run N.890 46' W.on a true line bet.secs.24 and 25. Ascend gradually over rolling land, almost level; in gravelly sandy and stony soil; through dense greasewood, prickely sage and cactus undergrowth. 4.46 Trail bears N.300 W.and S.300 E. E.side of storm water pond, in alkali flat, course 29.50 N.100 W.and S.100'.E.about 10.00 chs, and 4.50 chs.wide, Road from Berry Spring to Canaigara grounds bears N. and S. 39.94 Set a red sandstone 28x14x5 ins., 2I ins., in the ground, for I/4 sec.cor., marked I/4 on N.face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft.dist.; and

This cor.is on sandhills about 50 ft.above the sec.cor. The cor.of secs.23,24,25 and 26. This cor.about 75 ft.above the I/4 sec.cor.

Land level and rolling sand hills.

3rd.4th.and 2nd.rate.

N.of cor.

79.88

Dense sage, greasewood and cactus undergrowth on 79.88 chs.

Canaigara root or sour dock grows abundantly in E.

Soil, sandy, gravelly and stony, and rich sandy soil;

raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high,

Canalgara root or sour dock grows abundantly in 1/2 of secs.24 and 25.

May 30, 1899: At 8h 57m a.m., l.m.t., I set off 370 9' N.

May 29,1899.

No timber.

mine a true meridian with the solar, at the cor. of secs. 23, 24, 25 and 26.

Thence I run

North,00 6' E., bet.secs.23 and 24.

Ascend gradually over low rolling sandhills; in sandy, gravelly and stony soil; through dense greasewood and

on the lat.arc; 210 49' N.on the decl.arc; and deter-

Chains sage undergrowth. Foot of sandridge about 75 ft.above the sec.cor., 17.00 bears E.and W.; ascend more rapidly. Top of sandridge about I50 ft.above the sec.cor., 23.50 bears E.and W.; thence ascend more gradually over top of sandridge, sloping W. and N.W. Set a red sandstone 40x18x5 ins., 30 ins.in the ground, 40.00 for I/4 sec.cor., marked I/4 on W.face; dug pits 18x18 x12 ins., N. and S. of stone ,3 ft. dist.; and raised a. mound of earth, 3 I/2 ft.base, I I/2 ft.high, W.of cor. Top of ascent on high sandridge, about 300 ft. above the 64.00 sec.cor., bears N.W. and S.E.; thence descend gradually on N.W.slope of sandridge. Set a red sandstone 16xI0x6 ins., ll ins.in the ground, 80.00 for cor.of secs.13,14,23 and 24, marked with 3 notches on the S.and 1 notch on the E.edges; dug pits 18x18x12 ins., in each sec., 5 I/2 ft.dist.; and raised a mound of earth, 4 ft.base, 2 ft.high, W.of cor. This cor.is on N.W.slope of sandridge about 75 ft. below top of ascent. Land rolling sandhills and mountainous. Soil, sandy, gravelly and stony; 2nd. and 4th. rate. Dense greasewood and sage undergrowth on 80.00 chs. Mountainous land on 63.00 chs. No timber. 5.890 46' E.on a random line bet.secs.13 and 24. Set temp. I/4 sec.cor. 40.00 11.0007136. 79.80 Intersect E.bdy.of the Tp.18 lks. .. of the closing cor. of secs.18 and 19, T.42 S., R.13 W., which is a lava stone 5xI0x8 ins., above ground, marked and witnessed as described by the Surveyor General. I obliterate all marks pertaining to the closing cor. and re-mark this stone for cor.of secs.13,18,19 and 24, with 3 notches on the M.and S.edges; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W.of cor. Pits impracticable. I destroy all traces of the old cor. of secs. 13, 18, 19

and 24, which I find S 00 07 W:, 17.04 chs.dist from

Chains, the new cor.

44.00

47.70

Thence I run. N.890 38' W., on a true line bet.secs.13 and 24. Descend gradually over stony, sandy and gravelly soil; through scattering greasewood, iron wood and cactus the second second

A JOH . H-5855

- 6.50 Road from Berry Spring to Canaigara grounds bears N. and S.E.: 7.50 Trail bears N.100 E.and S.100 W.
- 9.70 Road from Berry Spring to Canaigara grounds bears N.
- 19.70 Bottom of hollow at foot of descent, about 50 ft. below the sec.cor., drains N.200 E.; thence ascend E. slope of sand ridge. . 20.84 Trail bears N.50 E.and S.50 W.
 - 21.60 Trail bears N.IOO E.and S.IOO W.
 - 39.90 Set a red sandstone 24x12x5 ins.,18 ins.in the ground,
 - for I/4 sec.cor., marked I/4 on N.face; dug pits 18x18
 - xl2 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, N.of cor.
 - This cor.is on E.slope of sand ridge about 150 ft. above the sec.cor.; ascend more rapidly.
 - Foot, of sandstone reefs about 75 ft.above the I/4 sec.cor., bears N.100 E.and S.100 W.; thence ascend ab-
 - ruptly over reefs. Top of sandstone reefs about 75 ft.above the foot,
 - bears N.IO E.and S.IO W.; thence ascend gradually over flat top of sandridge.
- 72.40 Top of ascent about 200 ft.above the I/4 sec.cor., on top of sandstone ridge; bears N. and S.; thence descend on W.slope of sandridge. Enter dense sage and greasewood undergrowth bears N.and S.; leave scat-
- tering undergrowth. 79.80 The cor.of secs.13,14,23 and 24. Cor.about 75 ft. below top of sandridge.
 - Land, rolling foot hills, and mountainous land. Soil, stony, gravelly and sandy; 4th. and 3rd.rate.
 - Dense sage and greasewood undergrowth on 7.40 chs. Mountainous land on 60.10 chs. No timber.
 - May 30, 1899: At this cor. I set off 210 50' N. on the decl.arc; and at 11h 57m a.m., 1.m.t., observe the sun

Subdivisions of T.42 S., R.14 W.-Continued.

N:.00 6' E., bet.secs.13 and 14. Ascend gradually on S.W.slope of sandridge; through. dense sage, greasewood and scattering cactus undergrowth in sandy, stony clay and gravelly soil. Top of sandridge about 50 ft.above the sec.cor., 7.50 bears N.W.and S.E.; thence descend on N.E.slope of sandridge; leave dense undergrowth and enter scattering undergrowth. Foot of sandstone butte at N.foot of sandridge, about 13.00 100 ft.below top of ridge, about 5.00 chs.long on . E.and W.course, and about 50 ft.high. 17.50 N.foot of butte about 60 ft.below the top bears E.and W.; thence descend gradually over almost level bench 20.00 Leave scattering undergrowth and enter dense sage, greasewood and tall dense cactus undergrowth, and rich loamy, gravelly soil, bears S.E. and N.W. 40.00 Set a red sandstone 26xI0x6 ins., 2I ins., in the ground for I/4 sec.cor., marked I/4 on W.face; dug pits 18x18x12 ins., N. and S. of stone 3 ft.dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, W.of cor. 80.00 Set a red sandstone 20x14x4 ins.,15 ins.,in the ground, for cor.of secs.11,12,13 and 14, marked with 4 notches on the S.and I notch on the E.edges; dug pits 18x18x12 ins., in each sec., 5 I/2 ft.dist.; and raised a mound of earth, 4 ft.base, I I/2 ft.high, W.of cor. Land mountainous, and nearly level. Soil; sandy, stony, gravelly and loamy; 4th. and 2nd. rate. Dense sage, greasewood or cactus undergrowth on 67.50 No timber.

Mountainous land on 17.50 chs.

67

Subdivisions of T.42 S., R.14 W.-Continued.

S.89038 E.on a random line bet.secs.12 and 13. Chains. Set temp. I/4 sec.cor. 40.00 Intersect E.bdy.of Tp. 3 lks.S.of closing cor.of secs. 01.08 7 and 18, T. 42 S., R. 13 W., which is a lava stone 5x8x6ins.above ground, markeddand witnessed as described by the Surveyor General. I obliterate all marks pertaining to the closing cor., and re-mark, this stone for cor.of secs.7,12,13 and 18 ..., with 4 notches on the S. and 2 notches on the N. edges; dug pits 18x18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft.base, 2 ft.high, W.of cor. I destroy all traces of the old cor.of secs.7,12,13 and 18, which I find S 00 07 W., 14.81 chs.dist., from the new cor. Thence I run. North,89° 39' W.on a true line bet.secs.12 and 13. Ascend gradually over rolling ground; through dense greasewood and cactus undergrowth; in sandy, gravelly loamy soil. 18.50 Road from Berry Spring to Canaigara grounds in S.E. cor.of Tp., bears N.200 W.and S.200 E. Set a red sandstone 20x12x5 ins.,15 ins.in the ground, 40.05 for I/4 sec.cor., marked I/4 on N.face; dug pits 18x 18x12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, N.of cor. Land Opr.is on bench about 50 ft. above the sec.cor. Thence over almost level bench. 43.80 Trail bears N.50, W. and S.50 E. 0I.08 The cor.of secs.11,12,13 and 14. Land rolling and nearly level. Soil, sandy, stony and gravelly; 4th.rate.On W.20.00 chs. rich sandy-loamy soil; Ist.rate. No timber. Dense greasewood and cactus undergrowth on 80.10 chs. May 30, 1899.

May 31,1899:At 7h 57m a.m., l.m.t., I set off 37010' :
"N.on the lat.arc; 210 58 N.on the decl.arc; and

Subdivisions of T.42 S., R.14 W.-Continued.

: Chains.	determine a true meridian with the solar, at the cor.
	of secs.11,12,13 and 14.
	Thence I run
:	North,00 6 E., bet.secs.ll and 12.
1	Descend gradually over level and rolling land; in
	sandy-loamy, gravelly and stony soil; through dense
	greasewood and cactus undergrowth.
28.50	Hollow about I50 ft.wide and 25 ft.deep, drains N.
33.6n	Trail to Virgin River and ranges bears N.20 W. and S.
	20° E.
40.00	Set a red sandstone 16xI0x5 ins., ll ins.in the ground,
	for I/4 sec.cor., marked I/4 on W.face; dug pits 18x
	18x12 ins., N. and S. of stone, 3 ft.dist.; and raised a
	mound of earth, 3 I/2 ft.base, I I/2 ft.high, W.of cor.
	This cor.is on bench about I50 ft.below the sec.cor.
44.60	Trail to Virgin River and the ranges bears N.300 W.
	and S.30° E.
59.30	Trail bears N.40° W.and S.40° E.
62.30	Road from Berry Spring to Canaigara.grounds at foot
	of descent, about 50 ft.below the I/4 sec.cor., bears
	N.40° W.and S.40° E;ascend over broken lava ridges.
	Leave dense undergrowth and enter scattering grease-
	wood, cactus and iron wood undergrowth.
74.50	Trail bears N.40° W.and S.40° E.
-78 .8 0	Trail bears N.W.and S.E.
 80.00	Set a black lava stone 26x20x10 "20" in the ground,
	for cor.of secs.1,2,11 and 12, marked with 5 notches on
!	on the S.and I notch on the E.edges; dug pits 18x18x
1	12 ins., in each sec., 5 I/2 ft.dist.; and raised a mound
1	of earth and stone, 4 ft.base, 2 ft.high, W.of cor.
	Hard lava stone surface prevented digging the pits
	deeper.
	This cor.is in broken volcanic or lava reefs or ridges
	about 50 ft.above the foot of ridges.
	Land rolling, and broken reefs or ridges.
,	Soil, sandy-loamy, gravelly and stony; 2nd. and 4th.rate.
,	Dense greasewood and cactus undergrowth 62.30 chs.
	Mountainous land on 17.70 chs. No timber.

Subdivisions of T.42 S., R.14 W.-Continued.

Chains. 40.00

80.30

S.89° 59' E.on a random line bet.secs.1 and 12 Set temp. I/4 sec.cor.

Intersect E.bdy.of Tp.,16 lks.S.or closing cor.of secs.6 and 7,T.42 S.,R.I3 W., which is a lava stone in place 20x20x12 ins.above ground, marked and witnessed as described by the Surveyor General.

I obliterate all marks pertaining to the closing cor. and re-mark.this stone for cor.of secs.1,6,7 and 12, leaving the 5 grooves on the S.and I groove on the N. of the cross designating the exact corner point, already cut; and raised a mound of stone 2 ft.base, I 1/2 ft.high, W. of corner point. Pits impracticable. I destroy all traces of the old cor.of secs.1,6,74nd 12, which bears South o'o'v, 12.60 chs.dist.from the new corner.

Thence I run

E.890 46' W.on a true line bet.secs.1 and 12. Descend over broken lava reefs and ridges; in clay, gravelly and stony soil; through scattering greasewood and iron wood undergrowth.

40.15

Set a lava stone 24x12x10 ins.,18 ins.in the ground, for I/4 sec.cor., marked I/4 on N.face; dug pits 16x18 x12 inc., E. and W. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft.base, I 1/2 ft.high, N. of cor. This cor. is on lava ridge or bench about 100 ft. below the sec.cor.

80.30

78.00 Trail bears N.40° V.and S.400 E.

The cor. of secs. 1,2,11 and 12. This cor. is about 50 ft.below the 1/4 sec.cor.

Land broken lava reefs, or ridges.

Soil, clay, gravelly, sandy and stony (3rd, and 4th, rate). Scattering greasewood and iron wood undergrowth on 80.00 chs.

Hountainous land on 80.30 chs. May 31,1899:At this cor. I set off 210 59' N.on the decl.arc; and, at 11h 57 a.m., 1.m.t., observe the sun on the meridian; the resulting lat.is 370 11' N.

Chains. North,00 6 E.on a random line bet.secs.1 and 2... 40.00 Set temp.1/4 sec.cor. 53.63 Set temp.meander.cor.of fractional.secs.l and 2 on S. bank of Rio. Virgin. 57.29 Set temporary meander cor.of fractional sec.1 and 2 on M.bank of Rio Virgin; which cor.also stands for temp.witness cor.on the line bet.secs.l and 2: 75.03 Intersect N.bdy.of Tp.at 136 lks.N.890.57 W.of.witness cor. to cor.of secs. 1,2,35 and 36, heretofore described, which point of intersection is 36 lks. W.of the true corner point in the Virgin River. Thence from the true point for the cor. of secs. 1, 2, 35 and 36, in the Rio Virgin, I run S.00 22 V.on a true line bet.secs.1 and 2. Descend in the waters of the Rio Virgin; in swift current, stony bottom. 2.50 W. side of the waters of the Rio Virgin, course S. IOOE. Thence over gravelly, sandy and stony dry bed of river. 17.74 Set a white sandstone 18xI0x5 ins.,12 ins.in the ground, for meander cor.of fractional secs.1 and 2, on the W.bank of the Rio Virgin, marked M.C.on S.face; with I groove on E.face; and raised a mound of stone 2 ft.base, I I/2 ft.high, N.of cor. Pits impracticable: I also establish this stone as a witness cor. of secs.1,2,35 and 36, with additional marks of.5 notches on V. edge 1 notch on E. odge and W. C. on N. E. face.

- 17.90 W.edge of the waters of the Rio Virgin which drains 8.85° W.
- 21.20 Fage of water on S.side of the Rio Virgin at foot of sloping bank about 15 ft.high. Enter dense willows.
- 21.40 Set a lava stone 16x10x5 ins., 11 ins.in the ground, for Meander cor.of .fractiona secs.1 and 2 on S.bank of Rio Virgin, marked

N.C.on N.face; with I groove on E.face; dug pit 36x36x 12 ins.,8 ft.S.of stone; and raised a mound of earth

Subdivisions of .T.42 .S., R.14 .W.-Continued. Chains. 4 ft.base, 2 ft.high, S.of.cor. Foot of ledges S.side of river bottom about 40 ft. 22.45 high, bears N.500 E.about 5.00 chs., thence S.E.; and S. 50° W.about IO.00 chs., thence N.70° W. Leave dense willow undergrowth which extends to S.side of Rio Virgin, bears N.500 E. and S.500 W. Top of volcanic ledges. bears N.50° E.and S.50° W. 22,50 Levi T.Jessup's houses and garden at Berry Spring bears N.67^{O} E.8.00 chs.and IO.00 chs.dist. Workmans house in river bottom on S.side of his farm and pasture bears N.500 W. 20.00 chs. dist. Thence gradually ascend over top of ledges. 26.15 Road from Virgin City to Washington by way of Berry Spring bears N.80° E.and S.80° W. Road at foot of volcanic ledges about 75 ft.above the 26.55 bed of Rio Virgin bears N.400 E.and S.400 W.; ascend abruptly over ledges. 29.70 Top of ledges on volcanic bench about 40 ft.above the foot, bears N.400 F.and S.400 W.; thence descend over broken volcanic reefs and ridges. Set a lava stone 22x14x7 ins.,17 ins.in the ground, 35.03 for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone 2 ft.base, I 1/2 ft.high, W.of cor. Pits impracticable. 62.50 Old road from Virgin City to Washington bears N.850 E.and S.850 W. 75.03 The cor. of secs. 1,2,11 and 12. This cor. is on volcanic bench about IOO ft. below the I/4 sec.cor. Land nearly level in river bottom; broken lava reefs and ridges S.of river bottom. Soil in river bottom, sandy gravelly and rich loam;

Soil in river bottom, sandy gravelly and rich loam;

3rd.and Ist.rate; on ridges sandy, stony and gravelly;

4th.rate. No timber except scattering cottonwood&

Willow and rabbit brush undergrowth in river bottom;

greasewood and iron wood undergrowth on ridges.

Mountainous land on 52.58 chs.

May 31,1899.

Subdivisions of T.42 S.-R.14 W., -Continued. Chains. June 1,1899:At 7h a.m., 1.m.t., I set off 370 7' N.on the the lat.arc;220 6' N.on the decl.arc; and determine a true meridian with the solar at the cor.of secs.2,3, 34 and 35 on S.bdy.of Tp., which I established May 25, I899. Thence I run 1.0° 6 E.bet secs.34 and 35. Descend over broken sandridges; through scattering greasewood and cactus undergrowth. Set a red sandstone 26x18x6 ins., 20 ins.in the ground 40.00 for I/4 sec.cor., marked I/4 on W.face; dug pits 18x18 x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, W.of cor. This cor.is on B.E.slope of sandridge which bears N.E., about IOO ft.below the sec.cor. Enter dense sage, greasewood and cactus undergrowth, bears N.E. and S.W.; leave scattering undergrowth. 80.00 Set a redsandstone 26x15x5 ins., 20 ins.in the ground for cor.of secs.26,27,34 and 35, marked with I notch. on the S.and 2 notches on the E.edges; dug pits 18x18 xl2 ins., in each sec., 5 I/2 ft.dist.; and raised a. mound of earth, 4 ft.base, 2 ft.high, W. of cor. This cor. is on N. slope of sandridge about 75 ft. below the I/4 sec.cor. Land mountainous and broken ridges. Soil, sandy and stony; 3rd. and 4th. rate. No timber. Dense sage , greasewood or cactus undergrowth on 40.00 chs. Mountainous land on 80.00 chs. East on a random line bet.26 and 35 40.00 Set temp.I/4 sec.cor. 80.30 Intersect N.and S.line 11 lks.S.of cor.of secs.25, 26,35 and 36. Thence I run

> S.890 55 W.on a true line bet.secs. 26 and 35. Descend over broken sandridges and sandstone reefs;in sandy stony soil; through dense sage; greasewood and

- Chains, cactus undergrowth. Wash about 5 ft.wide and 4 ft.deep drains N.50 W.; 3.90 ascend over sandreefs sloping to N. 6.30 Top of ascent about 50 ft.above the sec.cor., bears N.300 E.and S.300 W.; thence descend over abrupt sandstone reefs. 10.70 Wash at foot of sandstone reefs or ledges about 40 feet below the top, about IO ft. wide and IO ft. deep, drains N.300 E.; ascend on S.E. slope of sandstone recfs. 12.30 Top of sandstone reefs or ledges about 50 ft.above the wash, bears N.300 E. and S.300 W.; thence ascend over sandridges. 23.55 Sandstone reef about 75 ft.above the sec.cor., bears N.400 E.and S.400 W.; descend abruptly. 23.75 Ravine in bottom of hollow about 25 ft.below top of reef, about 6 ft. wide and 6 ft. deep, drains N. 400 E.; ascend on S.E.slope of hollow. 25.50 Sandstone reef on W.side of hollow about 40 ft.above ravine, bears W.E. and S.W.; ascend gradually over sandstone reefs. 27.20 A sandstone about 20x10x10 ft., bears N.about 25 lks. 33.20 Top of sandridge about 140 ft.above the sec.cor., bears 1.400 Eand S.400 W.; descend. 40.I5 Set a redsandstone 24xI0x4 ins., I8 ins.deep in a mound of stone, for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, H.of cor. Pits impracticable. Hard sandstone surface prevented setting cor.stone deeper. This cor.is about 25 ft.below top of sandridge. 43.IO Bottom of hollow about 75 ft.below the I/4 sec.cor., drains N.300 E.; ascend. Top of hellow about 30 ft.above the bottom bears N. 47.00 40° E.and S.40° W.; thence along the head of hollow. 54.00 Begin ascent of sandridges which bear, N.40°E, and S.40° W. This cor. is about The cor.of secs.26,27,34 and 35. 80.30 IOO ft.above the I/4 sec.cor.
 - Find mountainous, broken sandridges and sandreefs.
 Soil, sandy and stony; 3rd.and 4th.rate.
 No timber.

Chains	Dense greasewood mage and cactus undergrowth on .
	80.30 chs.
	Mountainous land on 80.30 chs.
	·
	North,0° 6' E.bet.secs.26 and 27.
	Ascend gradually over broken sandridges, in sandy
	stony ground; through dense greasewood sage and cac-
	tus undergrowth.
I.30	Top of ascent about IO ft.above the sec.cor., bears
	N.E.and S.W.; descend on N.slope of sandridges.
40.00	Set a redsandstone 14x12x4 ins., ll ins.in the ground,
	for I/4 sec.cor., marked I/4 on W.face; dug pits 18x18
	x12 ins., N. and S. of stone, 3 ft.dist.; and raised a .
	mound of earth, 3.1/2 ft.base, 1.1/2 ft.high, W.of cor.
	This cor.is about IOO ft.below the .sec.cor.on N.
	slope of sandridges.; descend more rapidly.
60.00	Foot of sand mountain about I50 ft.below the $I/4$ sec.
	corner, bears N.10° E. and S.10° W.; descend more gradu-
,	ally; enter sandy soil; leave sandy stony soil.
80.00	Set a redsandstone 20x14x5 ins.,15 ins.in the ground,
	for cor.of secs.22,23,26 and 27, marked with 2 notches
	on S.and E.edges; dug pits 18x18x12 ins., in each sec.
,	5 I/2 ft.dist.; and raised a mound of earth; 4 ft.base,
	2 ft.high, W.of cor. About 75 ft.below foot of mountai
	Land mountainous, and rolling sandy foot hills.
	Soil, stony, and sandy on ridges; 4th, rate. Rich sandy
	soil on foot hills;2nd.rate.
	No timber.
	Dense greasewood , sage and cactus undergrowth on
	80.00 chs.
	Mountainous land on 60.00 chs.
	June 1,1899:At this cor.I set off 22^{0} 7' N.on the
	decl.arc; and, at llh 57m, a.m., l.m.t., observe the sun
1	on the meridian; the resulting lat is 370 09 ." N.

	Subdivisions of T.42.S., R.14.WContinued.
Chains.	2
	N.890 55' E., on a random line bet.secs.23 and 26.
40.00	Set temp.I/4 sec.cor.
80.34	Intersect N.and S.line IO lks. S.of cor.of secs.23,
	24,25 and 26.
	Thence I run
	S.890 51' W. on a true line bet.secs.23 and 26.
	Ascend gradually over rolling sand hills; in rich
	sandy soil slightly intermixed with gravel; through
•	dense greasewood, sage and cactus undergrowth.
40.17	Set a red sandstone 26x14x5 ins.,20 ins. in the
	ground, for I/4 sec.cor., marked I/4 on N.face; dug
	pits 18x18x12 ins.E.and W.of stone,3 ft.dist.;and
,	raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high,
	N.of. cor.
,	This cor.is about 50 ft.above the sec.cor.
59.10	Road to Canaigara or sour dock grounds from Washing-
•	ton, bears S.E. and N.W.
59.34	Enter rich sandy loamy soil bears N.100 E.and S.100
•	W.; leave sandy-gravelly soil.
80.34	The cor.of secs. 22,23,26 and 27.
·	This cor.is about 50 ft.above the s I/4 sec.cor.
	Land, rolling sand hills.
	Soil, sandy, gravelly and rich sandy loam; 2nd. and Ist.
	rate.
a) de	No timber.
,	Dense greasewood, sage and cactus undergrowth on
	80.34 chs.
,	
,	
	N.00 6'. E., bet.secs. 22 and 23.
	Descend gradually over rolling sand hills; in rich
-	sandy, loamy soil; through dense greasewood, sage and cactus undergrowth.
40.00	Set a redsandstone 30x14x5 ins.,23 ins.in the ground,
40.00	for I/4 sec.cor., marked I/4 on W.face; dug pits 18x18
*	xl2 ins., N. and S. of stone, 3 ft. dist.; and raised a
	mound of earth, 3 I/2 ft.base, I I/2 ft.high, W.of cor.
` ,	modile of out only of the formation of the first sor out.

This cor.is about 50 ft.below the sec.cor.

13

Chains. Set a red sandstone 20xI0x4 ins., I5 ins.in the ground, 80.00 for cor.of secs.14,15,22 and 23, marked with 3 notches on S. and 2 notches on E.edges; dug pits 18x18x12 ins. in each sec., 5 I/2 ft.dist.; and raised a mound of earth, 4 ft.base, 2 ft.high, W.of cor. This cor.is about 50 ft.below the I/4 sec.cor.... Land, rolling sandhills. Soil, sandy and sandy-loam; 2nd. and Ist. rate. No timber. Dense greasewood, sage and cactus undergrowth on 80.00 June 1,1899. North, 890 51 E.on a random line bet. secs. 14 and 23. 40.00 Set temp. I/4 sec. cor. Intersect N. and S.line, 2 lks. S. of cor. of secs. 13, 14, 80,28 23 and 24 Thence I run S.890 50 W.on a true line bet.secs.14 and 23. Descend gradually on W.slope of sandridge; in sandy gravelly soil; through scattering greasewood and cactus undergrowth. 11.00 Foot of descent about 50 ft.below the sec.cor., bears N.and S.; ascend gradually on E.slope of sandridge. 13,00 Top of ascent about 25 ft.above the foot bears N. and S.; descend gradually. 39.00 Foot of descend at W.foot of sandridge, about IOO ft. below the sec.cor., bears N. and S.; leave gravelly and sandy soil and enter sandy loam, Leave decattering. undergrowth and enter dense greasewood, sage, and cactus undergrowth. Ascend gradually over rolling sand hills. 40.I4 Set a red sandstone 24x12x6 ins.,18 ins.in the ground, for I/4 sec.cor., marked I/4 on N.face; dug pits 18x

18x12 ins., E. and W. of stone 3 ft.dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, N. of cor.

The cor.of secs.14,15,22 and 23.

80,28

Chains. Land mountainous and rolling sand hills. Soil, sandy and gravelly, and sandy-loam; 3rd. and 1st. rate. No timber.: . ' Dense sage, greasewood or cactus undergrowth on 41.28 chs. Mountainou's land on 39.00 chs. This cor.is about 75 ft.above the I/4 sec.cor. North,00 6' E.bet.secs.14 and I5. Ascend gradually over rolling sand hills; in rich sandy-loamy soil; through dense greasewood, sage and cactus undergrowth, and scattering iron wood. 12.00 Foot of sandridge about 25 ft.above the sec.cor., bears E.and W.; ascend more rapidly on S.slope of ridge. I6.00 Top of sandridges about IOO ft.above the sec.cor., bears E.and W.; thence descend over N.slope of sandridges. Leave sandy-loamy soil; enter sandy and stony ground. Trail bears N.IOO W.and S.IOO E. 34.00 40.00 Set a red sandstone 26x16x4 ins., 20 ins.in the ground, for I/4 sec.cor., marked I/4 on W.face; dug pits 18x18xl2 ins., N. and S. of stone , 3 ft. dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, W.of cor. This cor.is on the N.slope of sandridges which bear N.40° E.and S.40° W., about I50 ft. below the top of ridge. Leave dense undergrowth and entering scattering greasewood, sage and iron wood undergrowth. 70.00 Hollow at N.foot of sandridges about IOO ft.below the I/4 sec.cor., which bears N.70° W.and S.70° E. Hollow drains N.700 W. Thence ascend on S.slope of sandridge ; enter planet Top of sandridge about 50 ft.above the foot bears N. 74.50 400 W.and S.400 E.; descend on N.slope. 78.00 Foot of sandridge about 40 ft.below the top, bears E

and W.; begin ascent of gravelly knoll.

Top of knoll about 45 ft.above the foot; descend on !]

79.60

Subdivisions of T.42, S., R.14 W.-Continued. Chains, slope of knoll. Set a volcanic stone 18x12x12 ins.,12 ins.in the 80.00 ground, for cor.of secs. IO, 11, 14 and 15, marked with 4 notches on S.and 2 notches on E.edges; dug pits 18x 18x12 ins., in each sec., 5 I/2 ft.dist.; and raised a mound of earth, 4 ft.base, 2 ft.high, W.of cor. This cor. is about IO ft.below the top of knoll. Land, mountainous, and rolling sand hills. Soil, sandy-loam, gravelly and stony; ist. and. 4th.rate. No timber. Dense greasewood, sage or cactus undergrowth on 40.00 chs. Mountainous land on 68.00 chs. Willow spring, a small spring pure fresh water, emerges from sandstone ledges, runs about 30 gallons per minute, bears 5.39 I/2 0 W., about 45 chs.dist. Water from spring runs in a ravind which drains W.W. and sinks in the sand 5 or 6 chs.dist.from spring.A black willow about 24 ins.in diameter with spreading branches, and from which the spring derives its name, is about 2.00 chs.N of spring. June 2,1899:At the cor.of secs.10,11,14 and 18, I set off 220 15' N.on the decl.arc; and, at 11h 57m, a.m., observe the sun on the meridian; the resulting lat is 370 IO' " N.

North,890 50 E.on a random line bet.secs.ll and 14. Set temp.I/4 sec.cor.

Intersect N. and S.line 2 lks.N. of. cor.secs.11,12,13 and 14.

Thence I run .

40.00

80.30

S.89° 51' W.on a true line bet.secs.ll and 14:
Ascend on E.slope of sandridge; in sandy-gravelly and
stony soil; through dense greasewood and cactus undergrowth, and scattering iron wood.

8.50 Trail bears N. and S.

16.50 Ascend on N.slope of sandridge.

Chains.	
28,40	Wash 4 ft.wide and 4 ft.deep drains N.50 W.
30.00	Sandstone butte about 200 ft.long, 70 ft.wide and IO
	ft.high, bears S.about 70 lks. A sandstone butte about
	I20 ft.long,70 ft.wide and 20 ft.high, bears S.W.
•	about 4.00 chs.dist.
34.40	Top of ascent about IOO ft.above the sec.cor., bears
	N.E.and S.W.; begin descent of sandridges.
40.15	Set a red sandstone 30x18x4 ins.,22 ins.in the ground,
,	for I/4 sed.corner, marked I/4 on N.face; dug pits 18x18
•	18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a
	mound of earth, 3 I/2 ft.base, I I/2 ft.high, N.of cor.
	This cor.is about 50 ft.below where descent begins.
,	Leave dense undergrowth bears N.E.and S.W.; enteri
	scattering greasewood; continue in iron wood.
69,90	Foot of sandridge about I50 ft.below the I/4 sec.cor,,
	bears N.20° E.and S.20° W.; ascend gradually.
75.00	Top of sandridge about 25 ft.above the foot of ridge,
	bears N.200 E.and S.200 W.; descend.
78.10	W.foot of sandridge about 30 ft.below the top, bears N.
	200 E.and S.200 W.; ascend N.E.slope of sandy, gravelly
	knoll.
80.30	The cor.of secs. IO, 11, 14 and 15, which is about 20 ft.
	above foot of knoll.
	Land mountainous and broken sandridges.
	Soil, sandy-gravelly and stony; 2nd. and 4th.rate.
	No timber.
	Dense greasewoods and cactus undergrowth on 40.15 chs.
	Mountainous land on 80.30 chs.

June 2,1899: At 2h 57m a.m.,1.m.t.,I set off 370 IO' N.on the lat.arc;220 16' N.on the decl.arc; and determine a true meridian with the solar, at the cor.of secs.IO,11,14 and 15.

Thence I run

N.Cec a newhet.secs.10 and 11.

Ope of knoll and over rolling Berry.

Ohier and analygravelly, clay and

30%, A-282

Ch . 4 me	stony ground; through scattering greasewood and iron
wi.diiio s	wood undergrowth.
2.00	Foot of knoll about 25 ft.below the sec.cor., bears N.
2,4	W.and S.E.
13.35	Road from Washington to Virgin City by way of Berry
	Spring, bears N800 F. and S.800 E. ascend
40.00	Set a volcanic stone 26x14x6 ins., 6 ins.in the ground,
	and in a mound of stone 14 ins.deep, for I/4 sec.
:	cor., marked I/4 on W.face; and raised a mound of stone
•	2 ft.base, I 1/2 ft.high, W.of cor. Pits impracticable.
	Volcanic stone at cor.point prevented setting cor.
	stone deeper.
	This cor.is on volcanic bench about 50 ft.below the
•	sec.cor.
61.80	Top of almost perpendicular ledges, about 25 ft. ahove
	the I/4.sec.cor., bears N.400 E.and S.400 W.; descend
	abruptly over volcanic ledges.
64.26	Foot of ledges about 75 ft.below top, on S.bank of
	Rio Virgin, bears N.400 E.and S.400 W.
	Set a yellow sandstone 24x12x8 ins.,18 ins.in the
i v	ground for Meander Corner of fractional secs. 10 and
4	ll,marked .
	M.C.on W.face; with 2 grooves on E.face; and raised a
	mound of stone 2 ft.base, I 1/2 ft.high, S.of cor.
	Pits impracticable.
67.00	Stedge of water of Rio Virgin at low water mark,
	about 260 ft.wide, average about I ft.deep, slow cur-
	rent, rock; bottom, mody fresh water, runs 5.30° W.
70,90	N.bank of Rio Virgin. The point for meander cor.falls
i	on a sandstone in place about 20x15 ft., and 6.ft.
	At the exact cor.point I cut a cross 6 ins.long and
	1/4 inch deep, marked M.C. on S. and 2 notches on E.
	side of cross, for Meander cor. of fractional secs.
	IO and 11; and raised a mound of stone, 2 ft. base, I 1/2
	ft.hlgh, at foot of stone IZ lks.N.of corner point.
	Impracticable to build mound at the proper distance
	from the cor.point. Pits impracticable.
	Ascend abruptly over volcanic and re ledges .
	Top of ledger about Ifo ft.abov . Virgin,

bears U.409 B.and S.409 E.;ac .

Chains. 80.00

tain.

Set a gray sandstone 26x16x5 ins.,20 ins.deep in a mound of stone, for cor.of secs.2,3,10 and ll,marked with 5 notches on S.and 2 notches on E.edges; and

raised a mound of stone 2 ft.base, I I/2 ft.high, W. of cor. Pits impracticable. Sandstone at cor.point prevented setting cor. stone deeper.

This cor.is about 170 ft.above the Rio Virgin near top of sandstone mountain range which skirts the river. Many specimens of petrified wood are found on this range.

Land mountainous and broken; in river bottom nearly

Soil, sandy, gravelly, clay and stony; 3rd. and 4th.rate.

No cimoer.

Mountainous land on .9.10 chs.

June 2,1899.

6.94

40.00

80.26

I.20

9.Ï0

14.20

40.I3

N.89° 51' E.on a random line bet.secs.2 and 11. Set temp.Meander cor.on W.bank of Rio Virgin.

IO. 51 | Set temp. Meander cor. on E. bank of Rio Virgin.

Set temp.I/4 sec.cor.

Intersect N. and S.line 14 lks. S.of cor.of secs.1,2,

11 and 12.

Thence I run

S.890 45' W.on a true line bet.secs.2 and 11.
Descend over volcanic, and sandy, stony and gravelly

bench; through scattering greasewood and iron wood.

Trail bears N.600 W.and S.600 E.

Old road and trail bears N.200 E.and S.200 W.

Road from Washington to Berry Spring and Virgin City bears N.100 W.and S.100 E.

Set a black lava stone 26xI0x4 ins.,20 ins.in the ground for I/4 sec.cor.,marked I/4 on N.face;dug pits 18x18x12 ins.,E.and W.of stone,3 ft.dist.;and

raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, N.of cor.

This cor.is about 75 ft.below the sec.cor.

•	OUDITALISTORY OF TAXABLE AND
weeking all the state of the st	1
Chains.	• 1
44.00	Trail bears N.100 W.and S.100 E.
66.30	Trail bears N.20° W.and S.20° E.
68.87	Top of ledges on E.side of the Rio Virgin about 50
į	ft.below the I/4 sec.cor., bears N.200 E.and S.200 W.;
•	descend abruptly over ledges.
69.75	Foot of ledges in river bottom, about 75 ft.below the
2	top of ledges, on E.bank of the Rio Virgin, bears N.200
; ; ;	E.and S.200 W.
j 1	Set a lava stone 30x12x5 ins.,23 ins.deep in a mound
	of stone, for Meander cor.of fractional secs.2 and 11,
1	marked
1	M.C.on W.face; with 5 grooves on S.face; and raised a
	mound of stone,2 ft.base, I I/2 ft.high, E.of cor.
,	Pits impracticable.Volcanic stone at corner point
\$ 1	prevented setting the cor.stone in the ground.
72.10	E.edge of the water of the Rio Virgin, near low water
	mark, now about IIO ft.wide. The current is rapid,
i	with stony bottom, fresh muddy water about I foot
	deep, runs S.200 W.
73.32	West bank of Rio Virgin.
1	Set a yellow sandstone 30xI0x5 ins.,23 ins.in the
•	ground, for Meander cor.of fractional secs.2 and 11,
:	marked
;	M.C.on E.face; with 5 grooves on S.face; dug pits 36x
	36x12 ins. 8 ft.W.of stone; and raised a mound of
1	earth, 4 ft.base, 2 ft.high, W.of cor.
74.05	Foot of ledges on the W.side of the river bottom,
	about 20 ft.above river bed, bears N.200 E.and S.200W.
	Ascend abruptly over broken ledges.
76.00	Top of ledges about 75 ft.high, bears N.200 E.and S.
annua di di	200 W.; ascend rapidly over S.E.slope of burnt sand-
•	stone mountain.
80.26	The cor.of secs.2,3,10 and 11.
,	This cor.is about I40 ft.above the bed of the Rio
	Virgin.
* : ' . ' . }	Land, rolling, broken and mountainous.
	j.
	Soil, stony, sandy and gravelly; 4th. and 3rd. rate; in
	river bottom the soil is sandy-loamy; 2nd. and Ist.rate.
!	No timber.

Mountainous land on 6.94 chs.

Subdivisions of T.42 S., R.14. W.-Continued. Chains. June 3,1899; At the cor. of secs. 2,3,10 and 11,1 set off 22° 22' N. on the decl.arc; and at 11h 57m a.m., l.m.t., observe the sun on the meridian; the resulting lat.is 37° 11' N. Knowing from previous re-survey of the N.bdy.of the Tp.that a closing cor.of secs.2 and 3 will be necessary, I survey the line bet. these secs. as follows: June 3, 1899: At 2h p.m., l.m.t., I set off 370 II' 20" N.on the lat.arc; 220 23' N.on the decl.arc; and determine a true meridian with the solar, at the cor. of secs.2,3,10 and 11. Thence I run-N.00 6' E.bet.secs.2 and 3. Ascend on S.E.slope of sandstone mountain; through scattering greasewood, and iron wood undergrowth. I7.00 Top of sandstone mountain about IOO ft.above the sec. cor., bears N.40° E. and S.40° W.; thence descend on N.W. and N.slope of mountain; over broken ridges and ledges 40.00 On N.slope of steep descent, about 200 ft.below the top of mountain. Set a yellow sandstone 12x12x8 ins.,8 ins.deep in a mound of stone, for I/4 sec.cor., marked I/4 on W. face; and raised a mound of stone 2 ft.base, I 1/2 ft. high, W. of cor. Pits impracticable. Sandstone surface prevented setting the cor.stone deeper. 48.IO Road from Washington .to Berry Spring and Virgin City, at foot of mountain in hollow, about IOO ft.belw low the I/4 sec.cor., bears N.800 E.and S.800 W.: thence over broken clay and gypsum foot hills with frequent hollows and small washes which drain S.E. to Virgin River. 75.50 Intersect the N.bdy.of the Tp. 4.05 chs. S.890 57' E from the old.cor.of secs.2,3,34 and 35, heretofore described. Set a gray sandstone 20x8x6 ins., 15 ins.in the ground

for closing cor.of secs.2 and 3,marked C.C.on S.; with 2 grooves on E. and 4 grooves on W.faces; and

Subdivisions of T. 42. S., R. 14. W .- Continued. chains. raised a mound of stone 2 ft.base, I 1/2 ft.high, S. of cor. Pits impracticable. I destroy the marks on the old cor.pertaining to secs.2 and 3; and re-markathe stone for cor.of secs. 34 and 35, T.4I S., R. I4 W., only. Land mountainous and broken foot hills. Soil, stony, clay and gypsum and gravelly; 4th. rate. No timber. Mountainous land on 75.30 chs. June 3,1899. June 5,1899:At 9h a.m., l.m.t., I set off 370 7' N.on the lat.arc; 220 35 N.on the decl.arc; and determine a true meridian with the solar, at the cor. of secs. 3,4 4,33 and 34, on the S.bdy.of the Tp., which I established May 24, I899. See Book "A". Thence I run North 00 5 E.bet.secs.33 and 34. Descend over sandstone ridges; in sandy and stony and rich sandy soil; through scattering greasewood, sage, and cactus undergrowth. 3.00 30.00 Hollow drains N.E. Begin abrupt descent over sandstone ridges sloping 🚟 40.00 Set a red sandstone 24x24x6 ins., 18 ins.in the ground for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone 2 ft.base, I 1/2 ft.high, W.of cor. Pits impracticable. This cor.is about 150 ft.below the sec.cor.cor Descend more gradually. 50.00. Enter dense greasewood, sage and cactus undergrowth, bears N.100 E.and S.100 W.; leave scattering undergrowth. 80.00 Set a red sandstone 30xI4x6 ins., 23 ins.in the ground, for cor.of secs.27,28,33 and 34, marked with I notch on the S.and 3 notches on E.edges; dug pits 18x18x12 ins.in each sec., 5 I/2 ft.dist.; and raised a mound of

earth, 4 ft.base, 2 ft.high, W.of cor.

27

Subdivisions of T.42.S., R.14. W.-Continued. Chains. This cor.is on N.E.slope of sandridges about 75 ft. below the I/4 sec.cor. Land mountainous and broken. Soil, sandy, gravelly and stony and rich sandy soil; 3rd.,4th.and 2nd.rate. No timber. Dense greasewood, sage and cactus undergrowth on 30.00 chs. Mountainous land on 80.00 chs. East, on a random line bet.secs.27 and 34. 40.00 Set temp. I/4 sec. cor. 79.98 Intersect N.and S.line IO lks.N.of cor.of secs.26,27, 34 and 35. Thence I run N.890 56' W.on a true line bet.secs.27 and 34. Ascend gradually over broken sandridges; in sandy gravelly and stony ground; through scattering greasewood, sage and cactus undergrowth. Top of sandridge about 25 ft.above the sec.cor.bears 8.80 . bears N.IOO E.and S.IOO W.; descend over sandridges sloping N.W. 39.99 Set a red sandstone 26x18x5 ins., 20 ins.in the ground for I/4 sec.cor., marked I/4 on N.face; dug pits 18x18xl2 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high N.of cor. This cor.is about 75 ft.below the top of ridge. Descend into hollow. 46.25 Bottom of hollow about 75 ft.below the I/4 sec.cor., drains N.200 W.; ascend. 48.50 Top of ascent W.side of hollow about 25 ft.above bottom of hollow, bears N.200 W. and S.200 E. ; descend. 54.70 E. side of hollow about 70 ft. wide and 25 ft. deep, drains N.W. ascend from hollow. 57.70 W.side of hollow about 30 ft.above the bottom, and trail bears N.100 E. and S.100 W.

72.20 Top of ascent about 50 ft.above the hollow, bears N.W and S.E.; descend.

15.00

Subdivisions of T.42 S., R.14. W.-Continued.

Chains. Top of ledges on E.side of chasm about 100 ft.wide 74.00 and 50 ft.deep, bears N. and S. Head of chasm with perpendicular ledges of sandstone about I50 ft.deep, bears N.about I50 lks. Enter dense sage and greasewood undergrowth bears 75.60 N.and S.; leave scattering undergrowth. The cor.of secs.27,28,33 and 34. 79.98 Land mountainous and broken sandridges. Soid, sandy, gravelly and stony; 3rd. and 4th.rate. No timber. Mountainous land on 79.98 chs. June 5,1899:At this cor. I set off 220 36' N.on the decl.arc; and, at 11h 58 a.m., l.m.t., observe the sun on the meridian; the resulting lat.is 370 8' N. N.00 5 E.bet.secs.27 and 28. Descend on N.slope over broken sandridges; in sandy stony and sandy-loamy soil; through dense greasewood, and sage undergrowth . Top of sandstone ledges about 25 ft.below the I/42.20 sec.cor., bears N.800 W.and S.800 E.about 4.00 chs. to head of chasm. Leave dense undergrowth bears E.and W.; enter scattering sage, greasewood and cactus. Bottom of chasm about IOO ft.deep, and wash I4 ft. 5.70 wide and 6 ft.deep drains N.800 W. IO.50 Wash in bottom of chasm about 8 ft.wide and 4 ft. deep drains N.850 W., and joins main wash at about 5.00 chs.dist.Perpendicular ledges at head of chasm bears E.about 6.00 chs. 11.38 Foot of almost perpendicular ledges on N. side of chasm, abo ut 75 ft.high, bears N.850 W.and S.850 E. 11.50 Top of ledges on N.side of chasm; ascend over broken sandstone reefs. .

> Top of ascent about 50 ft.above the top of ledges, bears E.and W.; descend over sandridges in sandy, loamy soil; through dense sage, greasewood and cactus

Chains, undergrowth and mountain rush; leave scattering under growth and sandy gravelly stony ground. Set a red sandstone 24x12x5 ins.,18 ins.in the ground, 40.00 for I/4 sec.cor., marked I/4 on W.face; dug pits 18x18 xl2 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, W.of cor. About 50 ft.below beginning of descent. 00.08 Set a red sandstone 24x14x6 ins.,18 ins.in the ground, for cor.of secs.21,22,27 and 28, marked with 2 notables on S.and 3 notches on E.edges; dug pits 18x18x12 ins., in each sec., 5 I/2 ft.dist.; and raised a mound of earth 4 ft.base, 2 ft.high, W.of cor. This cor. is about 75 ft. below the 1/4 sec. cor. on top of high sandridge. Land mountainous and broken. Soil, sandy, gravelly and stony and sandy-loam; 2nd. 4th. and 1st.tate. No timber. Dense sage, greasewood and cactus undergrowth on 65.00 Mountainous land on 80.00 chs. S.,890 56' E.on a random line bet.secs.22 and 27. 40.00 .Set temp. I/4 sec. cor. 79.92 Intersect H. and S.line 6 lks. S. of cor. of secs. 22, 23, 26 and 27. Thence I run 11.89° 59' W.on a true line bet.secs.22 and 27. Ascend gradually over rolling sandhills; in rich sandy loamy soil; through dense sage, greasewood and cactus undergrowth. 33.00 Leave rolling sandhills and enter broken sandridges and sandstone reefs, bears N.300 E. and S.300 W. Leave dense undergrowth and enter scattering sage, greasewood and cactus. Leave sandy-loamy soil. E.foot of S.projection of sandstone butte about 30, 34.00

ft.high bears S.200 W.about I5 ft.and extends N.

and N.E.about 5.00 chs.

		Subdivisions of T.42 S., R. I4 WContinued.
	hains.	
	35.00	S.W.foot of butte bears S.300 W.about 50 ft., and ex-
		tends N.about 5.00 chs.
/	36.00	Leave scattering undergrowth and enter dense sage,
		greasewood and cactus undergrowth bears N.300 E.and
		S.300 W.
	39.96	Set a red sandstone 36x20x5 ins., 27 ins.in the ground
		for I/4 sec.cor., marked I/4 on N.face; dug pits 18x18
		xl2 ins., E. and W. of stone, 3 ft.dist.; and raised a
		mound of earth, 3 I/2 ft.base, I I/2 ft.high, N. of cor.
		This cor.is about IOO ft.above the sec.cor.
		A sandstone butte about 6.00 chs.long N.E.and S.W.,
		and 3.00 chs.wide, I50 ft.high, bears N. about 3.00 chs
		Enter rich sandy loamy soil bears N.and S.; leave
		sandy, gravelly and stony soil.
	64.40	Trail bears N.700 E. and S.700 W.
	79.92	The cor.of secs.21,22,27 and 28.
		This cor.is about 50 ft.above the I/4 sec.cor.
		Land broken sandridges and rolling sandhills.
`		Soil, sandy, gravelly stony and rich sandy-loam;
	1 ×	3rd.4th.and Ist.rate.
7 2	(t-)	No timber.
		Dense sage, greasewood and cactus undergrowth on
		76.92 chs.
		Mountainous land on 46.92 chs.
,		When supplied with moisture this land affords good
	,	grazing for stock watering at Willow Spring and the
		Rio Virgin.
		RIO VII GIII.
		<u>`</u>
		,
		North,0° 5' E., bet.secs.2I and 22.
		Descend gradually over sandstone mountain sloping
•		N.E. and E.; in rich sandy-loamy soil; through dense
		sage, greasewood and cactus undergrowth.
	15.00	Foot of descent about 50 ft.below the sec.cor., bears
	10,00	S.W. and N.E.; ascend.
	77 00	Leave dense undergrowth bears E. and W.; enter scatter-
	33.00	
	38.00	Sage, greasewood and iron wood. Top of sandridge about 40 ft.above the sec.cor.
	30.00	Tup of sandings about 40 it.above the booton.

Chains. bears S.100 E.and N.100 W.; thence descend over top of sandridges; leave sandy loamy soil; enter sandy-stony ground. Set a redsandstone 24x14x7 ins., 18 ins.in the ground, 40.00 for I/4 sec.cor., marked I/4 on W.face; dug pits 18x18 xl2 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, W.of cor. Descend over N.W.slope of sandridges on top of sand stone mountain. 5I.75 Top of almost perpendicular ledges about 40 ft.below the I/4 sec.cor, and about 60 ft.high, bears N.70° E. and S.700 W.; descend abruptly over ledges. 5I.85 Foot of ledges bears N.700 E.and S.700 W.; thence descend over broken foot hills. 53.30 Top of ledges about I25 ft.below the 1/4 sec.cor bears N.700 E.and S.700 W.; descend abruptly. 53.50 Foot of ledges about 40 ft.high bears N.600 E.and S. 56.73 Top of sandstone reefs about J50 ft.below the I/4 sec. cor.bears N.70° E.and S.70° W. Descend abruptly over reefs. 59.00 Foot of sandstone reefs about 75 ft.below the top, bears 11.70° E.and S.70° W. 60,00 Begin ascent over broken sandridges in hollow which drains N.700 W. W.W.Roundy's house in river bottom hears W.about 50.00 chs..Pasture on S.side of river and farm and pasture on M.side of river extends along the river bottom across sec.21. 66.00 Trail bears N.600 E.and S.600 W. 67.00 Old wagon road bears N.800 E.and S.800 W. 71.80 Top of ascent about 50 ft. above the foot of ascent bears N.800 W.and S.800 E.; descend into hollow. 72.50 Bottom of hollow about 25 ft.deep drains N.800 W. Ascend. Top of ascent M.side of hollow, about 50 ft. above bot 75.50 tom of hollow bears N.800 W. and S.800 E.; descend gradually over N.E.slope of ridge. 80.00 Set a red sandstone 24x12xIO ins.,18 ins.in the ground, for cor.of secs.15,16,21 and 22, marked 4205.

on N.E., and I4 W., on S.E. faces; with 3 notches on S.

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Subdivisions of T.42 S., R.14 W.-Continued.

and E.edges; dug pits 18x18x12 ins., in each sec., 5 I/2 Chains. ft.dist.; and raised a mound of earth, 4 ft.base, 2 ft.high, W.of cor. This cor. is on bench about 300 ft. below the 1/4 sec. corner. Land mountainous and broken. . Soil, sandy loam and stony; Ist. and 4th. rate. No timber. Dense greasewood, sage or cactus undergrowth on 33.00 Mountainous land on 80.00 chs. June 5,1899. S.,89° 59' E.on a random line bet.secs.16 and 22. Set temp. I/4 sec.cor. 40.00 Intersect N.and S.line 23 lks.N.of the cor.of secs. 79.96 14,15,22 and 23. Thence I run N.890 49' W.on a true line bet.secs.15 and 22. Ascend on top of sandstone mountain over sandridges; in sandy, stony and gravelly soil; through dense sage greasewood and cactus undergrowth. Road from Washington to Canaigara or sour dock IO.40 grounds in S.E.part of the Tp., bears N.200 W.and S. 200 E. Top of sandridges about IOO ft.above the sec.cor., 38.30 bears N.400 E.and S.400 W.; descend over top of sandstone ridges and reefs; leave dense&enter scattering undergrowth. The point for the I/4 sec.cor.falls on a sandstone 39.98 reef, which falls rapidly to N. and W. At the exact cor.point I mark a cross 8 ins.long and I/2 inch deep, with I/4 on N side of cross; and at 6I lks.W.of cor.point at foot of reef I rais ed a mound of stone 2 ft.base, I 1/2 ft.high. Not practicable to build mound of stone on the M.side of cor. Pits impracticable. point. This cor.is about 75 ft.below the top of sandridges. Top of almost perpendicular ledges about 40 ft.high, 46.70

Chains. and about 100 ft.below the I/4 sec.cor., bears N. about 5.00 chs.; thence N.700 E.; and S.about 5.00 chs. to head of deep chasm. Foot of ledges; bears N. and S.; descend abruptly over 47.00 rough broken foot hills. 49.60 At head of wash about IO ft.wide and I5 ft.deep drains N.600 W. Descend more gradually over low ridges. 53.IO 67.55 Road bears N.100 Eand S.100 W. Trail bears S.IOO E.and N.450 W. 68.90 Old road bears N.400 W.and S.400 E. and joins main 70.60 road at a distance of about 15.00 chs.N. 79.96 The cor.of secs.15,16,21 and 22. Land, mountainous and broken. Soil, sandy and stony; 2nd. and 4th. rate. No timber. Dense undergrowth on 38,30 chs. Mountainous land on 79.96 chs. N.00 5' E.bet.secs.15 and 16. Over broken ridges near E, side of the Rio Virgin bottom, in sandy gravelly clay and stony soil; through scattering greasewood and iron wood undergrowth. 9.15 Road to Washington from Virgin City by way of Berry Spring, bears W. and H. 450 E. 16,00 Trail bears W.E. and S.W. 19.80 Old stone wall on E.side of river bottom bears N.E. and S.W. 21.00 Foot of volcanic ledges on E.side of river bottom, about 100 ft.below the sec.cor., bears N.E. and S.W.; thence over almost level land in river bottom. Begin abrupt ascent over ledges on E.side of river 24.00 bottom.

Old stone wall on E.side of pasture bears N.E.and S.

Top of ledges about 80 ft.above the river bottom, bears N.E. and S.W.; descend over volcanic reels.

25.90

25.90

27.00

W. .

Trail bears S.W. and N.E.

BUILD OF THE STATE OF

Subdivisions of T.42 S.R.14 W. Continued

Chains. Bottom of hollow about 50 ft.below the top of ledges 20.00 drains M.800 T.: ascend. Top of rugged point of ridge, about 50 ft. above the 31.00 bottom of hollow, bears, E, and W.; thence ascend graduaally over volcanic rbench. Set a volcanic stone 18x14x10 ins.,12 ins.in the 40.00 ground for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone 2 ft.base, I 1/2 ft.high, W. Pits impracticable. of cor. Dencerd gradually over K. slope of bench. Top of volcanic ledges on S.side of river bottom, ... 46.00 bears N.800 E.and S.800 W.; descend abruptly over ___ ledges. Foot of volcanic ledges in river bottom about 75 ft. 48.00 below the 1/4 sec.cor., 40 ft. high, bears, N. 800 E. and \$. 800 W. Enter dense willow undergrowth. Set a volcanic stone I8xI0x8 ins., 12 ins. in the 52.00 ground, for meander cor. of fractional secs. I5 and 16, on S.bark of the Rio Virgin, marked M.C.on M.face; with 3 grooves on E.face; dug a pit 36 x36x12 ins.,8 ft.S.of stone; and raised a mound of st earth, 4 ft.base, 2 ft.high, 5.of core ... Edge of water on S.side of the Rio Virgin at or 52.20 near low water mark; rapid current, fresh muddy water about I ft. deep; sandy bottom; course 8,600 W., about 6.00 cha.to Wr.W.Roundy's and Wallace Pollooks dam at head of their irrigation canal, thence \$.300 W. leave dence willow undergrowth. 71.20 Edge of water on H. bide of Rio Virgin at low water of mark. Enter denne greaners, od and villow undergrowth, brars, M. 600 F. and S. 600 W. 22.24 North bank of the Rio Virgin. art a gray sundetone 20x10x6 ins., It ins. in the ground for meander cor.of fractional secs. 15, and 16, marked. M.C.on S. face; with 3 grooves on E. face; dug a pit 36x Sarks ins., 6 ft. W. of stone ; and raised a mound of earth, 4 ft. hame, 2 ft. high, 7. of cor. th.00 Fort of burnt sandstone mountain on H. side of river

bottom, bears 5.800 F and 3.800 W. Lascend abruptly on

S.slope of mountain; leave greasewood and willow un-Chains. dergrowth and enter scattering greasewood and iron wood. Top of burnt sandstone mountain about 200 ft.above 71.20 the river, bears N.40° E.and S.40° W.; descend abruptly over rough N.W.slope of mountain. 77.00 Foot of mountain about I50 ft.below the top bears N. 40° E.and S.40° W.abrupt descent over broken foot hills. Set a gray sandstone 18x10x6 ins.,12 ins.in the 00,08 ground ,for cor.of secs.9,10,15 and 16, marked with 4 notches on S., and 3 notches on E.edges; and raised a mound of stone 2 ft.base, I I/2 ft.high, W.of cor. Pits impracticable. This cor.is on steep N.W.slope of foot hills about 25 ft.below foot of mountain. Land mountainous and broken; and river bottom. Soil, sandy and stony on mountain and ridges; 4th.rate In the river bottom the soil is sandy and loamy; 2nd. and Ist.rate. No timber, except scattering cottonwood and ash in river bottom. Dense greasewood and willow undergrowth on 7.00 chs. Mountainous land on 70.00 chs. June 6,1899:At this cor. I set off 220 42' Hon the decl.arc; and, at 11h 581, a.m., 1.m.t., the sky is sud-

23..72

arc.

26.89

40.00

80.14

5.89° 49' E.on a random line bet.secs.10 and 15. Set temp.meander cor.on W.bank of the Rio Virgin. Set temp.meander cor.on E.bankf of the Rio Virgin. Set temp. I/4 sec. cor.

denly over cast and I am unable to observe the sun on the meridian, and obtain the reading of the lat.

Intersect N. and S.line 2 lks. N. of cor. of secs. 10, 11, 14 and 15.

Thence I run

Chains.	1.89° 48' W.on a true line bet.secs.IO and I5.
	Descend over broken volcanic and sandstone ridges;
	in sandy, gravelly and stony ground; through scatter-
,	ing greasewood and iron wood undergrowth.
18.70	Trail in bottom of hollow which drains S.200 W.,
	about 40 ft.below the sec.cor.
29.00	Road from Washington to Berry Spring and Virgin City
	at foot of descent about IOO ft.below the sec.cor.,
t	bears S.70° W.and N.70° E.; ascend gradually.
40.07	Set a red sandstone 26x8x5 ins.,20 ins.in the ground,
	for I/4 sec.cor., marked I/4 on H.face; dug pits 18x18
	x12 ins., E. and W. of stone, 3 ft.dist.; and raised a
1	mound of earth, 3 I/2 ft.base, I I/2 ft.high, N.of cor.
	Descend gradually.
42.50	Trail bears N and S.
50.55	Top of volcanic ledges E.side of river bottom, about
ţ	25 ft.below the last I/4 sec.cor., bears N.300 E.and S.
	300 W.; descend abruptly over broken ledges into
	river bottom.
51.85	Foot of ledges in river bottom about 35 ft.high,
•	bears N.200 E.and S.200 W.
53.25	E.bank of the Rio Virgin; set a lava stone 36x12x4
	ins.,27 ins.in the ground, for meander cor.of fractional
	secs.IO and I5, marked
•	M.C.on W.face; with 4 grooves on S.face; dug a pit
	36x36x12 ins.,8 ft.E.of stone; and raised a mound of
,	earth, 4 ft.base, 2 ft.high, E.of cor.
54.00	E.edge of waters of the Rio Virgin at or near low
, Su , UU	water mark, about I60 ft. wide, rapid current, fresh
•	muddy water, rocky bottom, about 9 ins.deep, course S.
	200 W.
56.42	West bank of the Rio Virgin; set a gray sandstone
	36x12x6 ins.,27 ins.in the ground, for meander cor.of
	fractional secs. 10 and 15, marked
	M.C.on E.face; with 4 grooves on S.face; and raised a
	mound of stone, 2 ft.base, I I/2 ft.high, N.of cor.
	Hound could not be built on W.of stone on account of
	a large boulder at the proper place for the mound.
	Ascend abruptly over boulders in river bottom.
£7.40	Pits impracticable. Foot of almost perpendicular ledges about 25 ft.high,
	and about 20 ft.above th river bettom, bears H.200 E.

and S.200 W.; ascend abruptly over ledges. Chains. 57.60 Top of ledges bears N.200 E.and S.250 W.; thence ascend abruptly over S.E.slope of sandstone mountain. 75.00 Top of sandstone mountain about 175 ft.above the river bottom, bears N.300 E.and S.300 W.; thence descend very abruptly over broken ledges on N.W.slope of mountain. 80.I4 The cor.of sec.9, 10, 15 and 16. This cor. is about 175 ft. below the top of mountain. On this range is found abundant specimens of petrified wood and conglomerates made up of all kinds of small stones and gravel, in dicating that it was once coverwith water. Land mountainous and broken, and river bottom. Soil on mountain and ridges sandy, gravelly and stony; 3rd.and 4th.rates; in river bottom rich sandy and gravelly; 2nd . rate. No timber, except scattering cotton wood in river bottom. Mountainous land on 54.00 chs. June 6,1899:At 3h 58m p.m., l.m.t., I set off 37010 Hi.on the lat.arc; 220 44' H.on the decl.arc; and determine a true meridian with the solar, at the cor. of secs.9,10,15 and 16. Thence I run H.00 5' E.bet.secs.9 and IO. Descend abruptly over broken H.W.slope of foot hills; through scattering greasewood and iron wood undergrowth in sandy, clay and ctony ground. 0.20 Sharp hollow or ravine, about I5 ft. below the sec. cor. drains 5.70° W.and enterst the Rio Virgin near the

2.60 Top of ridge or spur of mountain about 75 ft.high, bears N.700 E.and S.700 W.

ridge.

Roundy-Pollock dam; ascend abruptly on S. slope of

5.30 Sandstone ridge at top of ascent about IOO ft.above the sec.cor., bears N.400 E.and S.200 W.; descend

	Subdivisions of 1.48 0, 11.74
Chains.	abruptly over N.W.slppe of ridge.
6.00	Foot of sandridge about 40 ft.bclow the top bears
0.50	N.E.and S.W.; thence descend over broken clay and
	gypsum foot hills, with frequent washes and hollows,
	which drain N.W.
32.00	Foot of clay and gypsum foot hills, about 100 ft.
52.00	below the last sec.cor., bears N.60° E. and S.60° W.;
	thence over almost level valley.
40.00	Set a yellow sandstone 18x8x6 ins.,12 ins.in the
	ground, for I/4 sec.cor., marked I/4 on W.face; dug
	pits I8xI8xI2 ins., N. and S. of stone, 3 ft.dist.; and
	raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high,
	W.of cor.
80.00	Set a white lime stone 24xI0x7 ins., I8 ins.in the
Bar"	ground, for cor.of secs.9 and IO, marked with 5 notches
	on S. and 3 notches on E.edges; dug pits 24x24x12 ins.
	in each sec., 6 ft.dist.; and raised a mound of earth
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4 ft.base, 2 ft.high, S.of cor.
1	Land, mountainous, broken, and level.
	sandy soil, stony, clay and gypsum on ridges and foot hills;
	3rd.and 4th.rate.In the valley clay, slightly inter-
	mixed with gravel; 2nd.rate.
	No timber.
	Mountainous land on 32.00 chs.
	June 6,1899.
	bulle 0,1055.
	7.00 (01.5)
	S.89° 48' E.on a random line bet.secs.3 and IO.
40.00	1
80.30	Intersect N.and S.line 5 lks.N.of cor.of secs.2,3,10
	and 11.
	June 7, 1899: At this cor. I set off 370 11' N.
	on the lat.arc;220 47' 30" N.on. the decl.arc;and
	at 9h a.m., l.m.t., determine a true meridian with
į	the solar.
	Thence I run
	N.890 46' W.on a true line bet.secs.3 and IO.
	Ascend abruptly on FE.slope of sandstone mountain;

through scattering greasewood and iron wood under-

Chains. growth.

80.30

Top of mountain about 200 ft.above the last sec.cor. 16..20 bears N.100 E.and S.100 W.; descend abruptly over broken ledges on N.W.slope of mountain.

Wash in bottom of hollow at foot of mountain, about 23,00 I50 ft.below the top of mountain, 20 ft. wide and 5 feet deep, drains N.200 W.; thence descend over broken

clay and gypsum foot hills.

Set a red sandstone 24x8x5 ins., I8 ins.in the ground, 40.I5 for I/4 sec.cor., marked I/4 on N.face; dug pits 18x18 xl2 ins.E.and W.of stone ,3 ft.dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, N.of cor. This cor.is in clay and gypsum foot hills about 200 feet below the top of mountain.

47.00 Leave broken clay and gypsum foot hills about 25 ft. below the I/4 sec.cor., bears N.60° E.and S.60° W.; gradually descend over almost level clay valley.

The cor.of secs.3,4,9 and IO.

This cor.is about 25 ft.below the foot hills.

Land mountainous and broken, and almost level valley.

Soil, stony clay , gypsum and gravelly on mountain and foot hills; 4th.rate; in the valley; clay slightly intermixed with gravel and suitable for farming purposes; 2nd .rate.

No timber.

Mountainous land on 47.00 chs.

The I/4 sec.cor .bet.secs.3 and 4 is a White sandstone I4x12x4 ins., marked I/4 on W.face. I restore pits and mound as follows:

dug pits I8xI8xI2 ins., N. and S. of stone 3 ft.dist.; and raised a mound of earth 3 I/2 ft.base, I/2 ft. high, W.of cor.

From this cor. I run

S.0°05'W.on a random line bet.secs.3 and 4.

Intersect the E.and W.line 5.61 chs., S.890 48' W.of cor.of secs.9 and IO.

Set a limestone 15x7x6 ins., IO ins.in the ground,

34.98

for closing cor.of secs.3 and 4, marked . Chains: C.C.on N.face; with 3 grooves on E.and I groove on N. face; dug pits 24x18x12 ins. crosswise on each line E.and W., 3 ft., and N. of stone 7 ft.dist.; and raised a mound of earth 4 ft.base, 2 ft.high, N.of cor.

> June 7,1899:At this cor.I set off 220 48' N.on the decl.arc; and at 11h 59m, a.m., 1.m.t., observe the sun on the meridian; the resulting lat.is 37011' N.

Thence I run N.0°05'E.

..On a true line bet.secs.3 and 4.

Ascend gradually over almost level land; in clay gravelly soil; through scattering greasewood and iron wood undergrowth.

- 17.00 Foot of clay and gypsum foot hills about 25 ft.above the closing cor., bears N.800 E.and S.800 W.; leave clay, gravelly soil; enter gypsum-clay and stony ground. Ascend over broken foot hills.
- 34.98 The I/4 sec.cor on E.bdy.of sec.4, which I establish as the I/4 cor.of sec.4 only; thence I continue
- measurement 11.0034 \. Set a burnt sandstone 16x10x8 ins.,11 ins.in the 40.00 ground, for I/4 sec.cor of sec.3, on W.bdy.of sec., marked I/4 on W.face; and raised a mound of stone, 2

ft.base, I I/2 ft.high, W.of cor. Pits impracticable.

This cor. is at foot of sandstone ridgeton S. slope, which bears N.E. and S.W., about IOO ft. above the closing sec.cor.

Land, broken foot hills, and almost level valley. Soil, clay and gravelly in valley; 2nd. rate; on foot

hills; clay-gypsum and stony; 4th.rate. No timber.

Mountainous land on 23.00 chs.

June 7,1899.

Subdivisions of T.42 S., R.14 W.-Continued. Chains. June 8,1899:At 9h a.m., l.m.t., I set off 370 7' N. on the lat.arc;220 53' N.on the decl.arc; and determine a true meridian with the solar at the cor.of secs.4,5,32 and 33, on S.bdy.of Tp., established by me May 24,1899, see notes of book "A", and Thence I run North,00 4' E., bet.secs.32 and 33. Descend over sandy, gravelly sandstone ridge, sloping N.and N.W.; through scattering greasewood, sage and iron wood undergrowth. Top of ledges about 200 ft.below the sec.cor., bears 36,00 N.200 E.and S.200 W.; descend abruptly over broken ledges on N.W.slope. 40.00 On broken ledges about 300 ft.below the sec.cor. Set a gray sandstone 20x12x4 ins., I5 ins.deep in a mound of stone, for I/4 sec.cor., marked I/4 on v.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W.of cor. Pits impracticable. Sandstone prevented setting the cor.stone deeper. 42.04 Top of almost perpendicular ledges about 125 ft. high, and 25 ft. below the I/4 sec. cor., bears N.10° E. and S.IOO W.; descend abruptly over ledges. 45.00 Foot of ledges bears N.100 E.and S.100 W.; thence over broken foot hills sloping N.W., along the W.foot of ledges. 78.40 Ravine at W.foot of perpendicular ledges, about 200 ft. high, 10 ft. wide and 10 ft. deep, drains W.2.00 chs., thence N.W.; ascend from ravine. 80.00 On S.W.slope of spur of main ridge about 30 ft.above the ravine, and 230 ft.below the I/4 sec.cor. Set a redsandstone 22xI0x6 ins.,17 ins.in the ground, for cor.of secs.28,29,32 and 33, marked with I notch on S. and 4 notches on E. edges; and raised a mound of stone ,2 ft.base, I I/2 ft.high, W.of cor. Pits impracticable. Land mountainous and broken.

Mountainous land on 80.00 chs.

No timber.

Top of mountain and foot hills afford good grazing

Soil, sandy, gravelly and stony; 3rd. and 4th. rate.

Chains.	when supplied with motsture.
•	
	E an a window line but sees 28 and 33.
40.00	E.on a random line bet.secs, 28 and 33. Set temp.I/4 sec.cor.
40.00	Intersect N. and S.line 6 lks.S.of cor.of secs.27,28,
80.06	53 and 34.
	Thence I run
	S.890 57' W.on a true line bet.secs.28 and 33.
	Ascend over sandridge; in rich sandy soil; through
	dense sage, greasewood and cactus undergrowth.
17.76	Top of sandridge about 50 ft.above the sec.cor.bears
17.70	N.100 E.and S.100 W.; descend.
27.50	Hollow about 2.00 chs.wide and 25 ft.deep, course,
	N.IOO E.about 20.00 chs. and opens into a deep
	gulch;; ascend.
34. <u>I</u> 0	Top of sandridge about IOO ft.above the hollow bears
	N.and S.; descend.
37.00	Enter sandstone ledges and reefs about I20 ft.above
	the sec.cor., bears H. and S.; leave dense and enter
	scattering undergrowth; leave rich sandy soil.
	Descend abruptly over ledges.
38.10	W.foot of ledges about 25 ft.high, bears N.and S.
40.03	Set a red sandstone 20x12x5 ins.,15 ins.in the ground
	for I/4 sec.cor., marked I/4 on N.face; dug pits I6xI6
	x12 ins., E. and W. of stone, 3 ft. dist.; and raised a
	mound of earth, 3 I/2 ft.base, I I/2 ft.high, N.of cor.
	This cor. is about 26 ft. below the foot of ledges.
40.36	Bottom of hollow about 25 ft.below the I/4 sec.cor.,
1	drains N.; ascend.
46.00	Ravine 4.06 chs.wide and 30 ft.deep, with sandstone
	walls on either side, heads about 5.00 chs.S., course
	N.30° E.about 2.00 chs., thence N.60° W.
50.06	Ascend abruptly over ledges on W.side of ravine.
59.66	Top of almost perpendicular ledges about IOO ft.above
	the I/4 sec.cor.bears N.300 E.and S.300 W.; descend
	abruptly over ledges.
60.06	Foot of ledges about 25 ft.below the top, bears N.
	300 E.and S.300 W.; descend abruptly.

Subdivisions of T.42 S., R.14 W.-Continued. Chains. Top of perpendicular ledges about 25 ft.high, bears. 70.06 N.300 E.and S.300 W.; descend abruptly. Top of almost perpendicular ledges about 50 ft.high, 74.86 bears N.and S. W.foot of ledges bears N.and S.; thence descend over 75.06 very steep W.slope of sandstone mountain. 80.06 The cor.of secs.28,29,32 and 33,at W.foot of sandstone mountain about 200 ft.high. Land mountainous and broken. Soil, rich sandy, and sandy stony; 2nd. and 4th.rate. No timber. Dense undergrowth on 37.00 chs. Mountainous land on 80.06 chs. June 8,1899:At this cor. I set off 22053' 30" N.on the decl.arc; and at 11h 59'.a.m., 1.m.t., observe the sun on the meridian; the resulting lat. is 370 8 N. N.00. 4' E.bet.secs.28 and 29. Ascend on W.slope of steep foot hills, in sandy stony ground; through scattering greasewood, sage, cactus and iron wood undergrowth. 2.20. Top of spur of ridge about 40 ft.above the sec.cor., bears S.800 E.and N.800 W.; thence descend rapidly over broken sandy, clay and gypsum foot hills, with frequent small washes and hollows, which drain W. N.W., and S.W. 23.00. Main wash in bottom of hollow, about 20 ft.wide and IO ft.deep, drains W. 34.50 Wash about 30 ft.wide and 6 ft.deep, drains 5.850 W. 35.80 Trail bears N.850 E.and S.850 W. 40.00 Set a red sandstone 24xI0x8 ins., I8 ins.in the ground, for I/4 sec.cor., marked I/4 on W.face; dug pits I8xI8

x12 ins., N. and S. of stone, 3 ft. dist.; and raised a

This cor.is on foot hills sloping W.and N.W.about

mound of earth, 3 I/2 ft.base, I I/2 ft.high, W.of cor.

1.1.20

I50 ft.below the sec.cor.

Trail bears 5.70°. W.and N.70° E. 46.70

		Subdivisions of T.42 S., R.14 WContinued.
C	hains.	
	52.48	On sandstone recfs about 50 ft.below the I/4 sec.cor.
		bears N.E. and S.W.; descend abruptly over N.W.slope
		of reefs.
	56,20	Ravine about IO ft.wide and 8 ft.deep, drains N.200 E
		and joins main ravine about 3.00 chs.dist
	61.00	Foot of sandstone reefs, about 75 ft. below the top
	,	bears N.E.and S.W.; thence descend more gradually
		over W.and N.W.slope of low foot hills.
	63.00	Main wash about IO ft.wide and 6 ft.deep, drains N.200
		W.into Fort Pierce Wash
	79.80	Fort Pierce wash about 50 ft.wide and 6 ft.deep,
		drains N.200 E., and N.to river. Road in bottom.
	80.00	Set a yellow sandstone 26xl2x5 ins.,20 ins.in the
	.0.	ground, for cor.of secs.20,21,28 and 29, marked with
	21.00	2 notches on S. and 4 notches on E.edges; and raised a
	mound of stone, 4 ft.base, 2 ft.high, W.of cor.	
	,	It is unsafe to dig pits in the wash. The mound of ston
		being larger than usual size is sufficient as wit-
		ness mound in the wash.
		Land mountainous and low foot hills.
	٠.	Soil, sandy, gravelly and stony; 3rd. and 4th.rate.
		No timber.
		Mountainous land on 6I.00 chs.
		Bunch grass and underbrush grows abundantly on foot
		hills when supplied with moisture.
	1	
	. [
-	_ '	
		N.890 57' E.on a random line bet.secs.2I and 28.
	1	et temp.I/4 sec.cor.
'		Intersect N. and S.line I6 lks. S. of cor. of secs. 21, 22,
	j	27 and 28.
	1	Thence I run
		S.89° 50' W.on a true line bet, secs.2I and 28.
		Ascend gradually over sandy stony ground, through

dense sage and greasewood undergrowth.

Bottom of hollow about 25 ft.below the top

N.and S.; descend.

Top of sandridge about 40 ft.above the sec.cor., bears

20.00

13.00

1

The level was a successive	Subdivisions of T.42 S., R.14 WContinued.
Chains.	ridge drains N.; ascend.
21.50	Top of ascent about 25 ft.above the hollow, bears N.
	and S.; descend.
33.50	Top of red sandstone bluff about 100 ft.below the sec.
•	cor., bears N.100 F. and S.100 W.; thence descend abruptly
	over broken sandstone ledges on W.slope of bluff.
	A small spring in the bottom of a deep ravine which
	drains N.70° W., bears S.about I2.00 chs.dist.
	Leave dense undergrowth and enter scattering greasewood
	wood and iron wood undergrowth.
39.98	Set a red sandstone 24x12 x6 ins., 18 ins.in the ground,
	for I/4 sec.cor., marked I/4 on N.face; and raised a
	mound of stone 2 ft.base, I I/2 ft.high, N.of cor.
	Pits impracticable.
	This cor.is near foot of broken ledges on steep W.
	slope about 225 ft.below the sec.cor.
50,00	Ravine in bottom of hollow at foot of sandstone bluff
	about I25 ft.below the I/4 sec.cor., In ft. wide and
	6 ft.deep, drains N.700 W., and opens out in river
	bottom.
	S.700 E.about 2.and 6.chs.dist.are small springs in
	the ravine.
51.00	Point of sandridge 25 ftabove the ravine, bears N.
	60° E.and S.60° W.; descend.
54.60	Trail bears ".10° E.and S.10° W.
55.70	Ravine in bottom of hollow, about 80 ft.below point
	of ridge, drains N.100 E.; ascend on N.E. slope of
_ •	ridge.
59.15 .	Top of point of ridge about 40 ft.above the ravine,
CT	bears N.60° E.and S.60° W.descend gradually.
61.50	Top of almost perpendicular ledges about EO ft.high,
.•	bears N.300 E.and S.300 W.; descend abruptly over
61.60	ledges.
01.00	Foot of Ledges bears N.300 E.and S.300 W.Stone pas-
66.50	ture fence bears N.300Eand S.300 W. Enter river bottom and pasture at foot of mountain,
50.50	about 250 ft.below the I/4 sec.cor., bears N.E. and
,	
,	S.W. Old irrigation ditch, now dry, about 3 ft. wide and
-	2 ft.deep, drains S.W.; thence over level bottom land,
	in Wallace Polick's and W.W.Roundy's pasture; through

scattering willow and cotton wood undergrowth and

Subdivisions of T.42 S., R. 14 W. - Continued. Chains. leave scattering greasewood and iron wood. A black willow IO ins.in diameter, bears N.of line . 70.00 about IO lks. Old irrigation ditch about 3 ft.wide and 2 ft.deep, 72.50 now dry, drains S.300 W. W.line of Roundy's and Pollock's, pasture fence; 74.50 bears N.300 W.about I5.00 chs.to head of Washington canal and dam; and S.300 E.about I2.00 chs.to foot of ledges.Leave pasture and descend gradually over sandy gravelly ground sloping N.W.and W. Fort Pierce wash about .50 ft.wide and 6 ft.deep, 79.00 drains N.400 E.about I.00 ch; thence N.100 W. Road in Fort Pierce wash bears S.400 W.and N.100 W. 79.IO The cor.of secs.20,21,28 and 29. 79.96 Land mountainous and broken, and almost level river bottom. Soil, sandy and stony on mountains and ridges; 2nd. and 4th.rate; in the river botton sandy and loamy with slight intermixture of gravel, -Ist.and 2nd.rate. Scattering black willow, cottonwood and ash in river bottom. Dense undergrowth on 29.50 chs. Mountainous land on 66.50 chs. Canaigara root grows along the foot hills in river bottom. June 8,1899. June 9,1899:At 9h a.m., l.m.t., I set off 370 09 on the lat.arc; 220 58' N.on the decl.arc; and determine with the solar a true meridian, at the cor. of secs. 20,21,28 and 29. Thence I run N.00 4' E.bet.secs.20 and 2I. Descend gradually over sandy and stony ground, in canon, along the E.foot of sandstone Fort Pierce mountain. Cross brush and stone dam built for protection of

main dam against freshets from Fort Pierce wash.

	oze z. is significant weight and in the continued.
Chains.	
14.60	Nouth of tunned at height and an way
21,00	Mouth of tunnel at head of the Washington canal on
	S. side of dam, cut in solid sandstone, about I2 ft.wide and I0 ft.deep, water about 5 ft.deep, runs N.85° W.
	through tunnel.
	At 24.00 chs.the point for meander cor on S.bank of
	Rio Virgin falls in a sluice ditch from the canal,
	and cannot be set.
14.90	Point for witness cor.for meander cor.con S.bank of
	of Rio Virgin, falls on N. side of a projecting sand-
	stone, I4 ft.long E.and W.by 8 ft.wide N.and S., and
	about Io ft.above ground. I cut a cross at the point
	for witness cor., 8 ins.long, I/2 inch deep , on M. side
•	of stone, for witness to meander cor.fractional secs.
	20 and 21, marked
	W.C.above the cross; H.C.on N.side of cross; with 4
	groo ves E.side of cross; and raised a mound of stone
	4 ft.base, 2 ft.high, N.side of stone 3 ft.dist.from
	W.C.point, on top of the Washington dam.
15.00	Washington dam, about 400 ft.long, 25 ft. wide and 20
	ft.high, with spill cut in solid stone on N.side of
	dam, constructed at a cost of about {15,000.00, bears
	11.300 E.
•	Vallace Pollock's house bears N.30° E.25.00 chs.dist.
	Corrall and stables etc. adjoining his house on the E.
15.30	Foot of dam and enter river bottom and pasture
	claimed by Wallace Pollock.
24.00	Point for the meander corner, S. bank of the Rio Vir-
	gin.
23.40	Road in river bottom bears H.800 E.and S.800 W.
26.40	S.edge of water of the Rio Virgin at low water mark,
ļ	about IOO ft.wide and 6 ins.deep, at foot of spill,

Point for meander cor.on N.bank of the Rio Virgin, falls on changeable bank under irrigation canal and cannot be set.

runs N.80° W.

slow current, sandy bottom, fresh but muddy water,

3I.70 Irrigation canal leading from Washington dam to Wilkins and Prince's farms and pastures, about 6 %t.wide and 2 ft.deep, filled with water , runs N.850 W.

NO.

	Chains.	
	31.95	Row of cottonwood trees bears N.850 W.and S.850 E.
		Ascend.
	32.40	Set a yellow sandstone 20x16x6 ins., I5 ins.in the
		ground, for witness cor.to meander cor.of fractional
		secs.20 and 21, already designated at 30.40 chs.N.of
		cor.of secs.20,21,28 and 29,marked
		W.C.and M.C.on S.face; with 4 grooves on E.face; dug
		a pit 36x36x12 ins.,8 ft.N.of stone; and raised a
		mound of earth, 4 ft.base, 2 ft.high, N.of cor.
	33.00	Top of bench on N.side of river bottom, about 75 ft.
		above the river, bears N.80°. W. and S.80° E.
		Road from Washington to EVirgin City by way of Berry
		spring, bears N.80° W.and S.80° E.; thence over rolling
		and broken bench land, with drainage .W. and S.W.
		toward the Virgin River.
	37.70	Road from Washington to Virgin City bears E. and W.
	40.00	Set a white limestone 24x12x3 ins.,18 ins.in the
		ground, for I/4 sec.cor., marked I/4 on W.face; dug
		pits 18x18x12 ins., N. and S. of stone, 3 ft.dist.; and
		raised a-mound of earth, 3 I/2 ft.base, I I/2 ft.high,
		W.of cor.
		This cor. is about 80 ft. above the river bottom.
	44.00	Road from Washington to Virgin City by way of Berry
		Spring, bears N.60° W.and S.60° E.
	57.70	Top of ascent about 75 ft.above the I/4 sec.cor.,
		bears E.and W.; descend.
		Enter clay bottom at foot of bench, about 50 fft/below
		the I/4 sec.cor.; bears N.800 W.and S.800 E.; thence
		over nearly level land.
	78.92	S.bank of wash about 50 ft.wide and IO ft.deep,drains
	1	S.70° W., and enters river bottom at about 75.00 chs.
	00.00	dist.
	80.00	Set a blue limestone 20x7x6 ins., I5 ins.in the ground
ļ		for cor.of secs. 16, 17, 20 and 21, marked with 3 notches
	:	on S., and 4 notches on E.edges; and raised a mound of
		stone 2 ft.base, I I/2 ft.high, W.of cor.
	;	Pits impracticable. Land rolling and broken on bench, nearly level on N.
-		
1	• }	side of bench and in river bottom. Soil, in river bottom rich and sandy with some gravel,
ĺ	i	sorrarii iraer occoom iren and sanda arm some Stavera

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Subdivisions of T.42 S., R.14 V.-Continued.

on bench and N.foot of bench, sandy, gravelly and clay; Chains. 2nd and 3rd rate. Black willow cotton wood and ash in the river bottom. Willow undergrowth in river bottom; scattering sage greasewood and iron wood on the low hills and benches. North,890 50' E.on a random line bet.secs.16 and 21. 40.00 Set temp. I/4 sec.cor. 55.14 Set temp. Meander cor. on W. bank of Rio Virgin. 6I.32 Set temp. Meander cor. on E. bank of Rio Virgin. Intersect N. and S.line 30 lks.S.of cor.of secs.I5, 79.84 I6,2I and 22. Thence I run S.890 37' W.on a true line bet.secs.16 and 21. Ascend over sandy stony ground on low broken foot hi hills; through scattering greasewood undergrowth. 2.00 Top of ascent about 20 ft.above the sec.cor., bears N.and S.; descend. 5.40 Trail bears N.300 E.and S.300 W. 6.70. Top of ledges on E.side of river bottom, about 40 ft. high and 50 ft.below the sec.cor., bears N.IOO E.and S.IOO W.; descend abruptly over ledges. 7.00 Foot of ledges in river bottom bears N.100 E.and S. 100 W.; enter W.W.Roundy's pasture. Descend bank IO ft.high; thence over level bottom 7.35 land in sandy, clay and loamy soil; leave scattering undergrowth and enter dense willows bears II.and S. I8.52 Set a gray sandstone 30xI2x8. ins., 23 ins.in the ground, for Meander cor.of fractional secs. I6 and 21, marked M.C.on W.face; with 3 grooves on S.face; dug pit 36x 36xl2 ins.,8 ft.E.of stone; and raised a mound of earth, 4 ft.base, 2 ft.high, E.of cor. A cottonwood IO ins., diam., bears S.200 E.90 lks. dist.,marked

Leave dense willows bears N.and S. Í8.70 E.edge of the water of the Rio Virgin about 220 ft. 2I,04.

T.42 S., R. I4 W., S. 2I, M.C., B.T.

- Chains, wide at or near low water mark, about I8 insideep. slow current, sandy bottom, runs 5.100 F.
- 27.70 West bank of the Rio Virgin.

Set a gray sandstone 30x9x5 ins.,23 ins.in the ground for Meander cor.of fractional secs. I6 and 2I, marked M.C. on E. face; with 3 grooves on S. face; dug pit 36x 36x12 ins.,8 ft.W. of stone; and raised am mound of earth, 4 ft.base, 2 ft.high, W. of cor.

Enter dense willow undergrowth bears N.and S.

- 27.24 Wire fence on E.side of Wm.W.Roundy's field bears S. 30° W., and N.10° E.about I0.00 chs.to foot of mountain. Enter pasture and field; leave dense willows.
- 30.80 Irrigation ditch about 2 ft.wide and 2 ft.deep runs S.
- 37.85 Irrigation canal at foot of mountain, about 6 ft.wide and 3 ft.deep, full of fresh water from the Rio Virgin, runs 5.70° W.along the head of farm.

 Fence and row of cotton wood trees on 5.bank of canal

canal, bears W.700 E.and S.700 W. Leave field&pasture

- 38.00 Begin abrupt ascent of foot of mountain on W.stde of river bottom, over broken sandstone ledges.

 39.92 Set a gray sandstone 24xllx3 ins., 18 ins.deep in a
- mound of stone, for I/4 sec.cor., marked I/4 on N. face; and raised a mound of stone, 2 ft.base, I I/2 ft. high, N. of cor. Pits impracticable. Sandstone pre-

vented setting cor.stone deeper.

This cor.is on S.F.slope of sandstone mountain about 100 ft.above the river bottom at foot of mountain.

William W.Roundy's house with corralls, stackyards, stables adjoining same on the E., bears 5.500 W. about 26.00 chs.dist.

- 44.80 Top of sandstone mountain, about 50 ft. above the I/4 sec.cor., bears N.70° E. and S.70° W.; thence descend over abrupt N.W.slope.
- 16.90 Foot of main ridge about 75 ft.below the top, bears N.F. and S.V. ; descend over broken ridge.
- FI.74 Foot of broken ridge about 2F ft.below foot of main ridge, bears M.E. and S.W. and parallels main ridge.

 Thence ascend on F. slore.
- 14.50 Top of ridge about 50 ft.above the foot, bears N.300 F

Chains. and S.300 W.; descend.

55.80 Foot of ridge about 50 ft.below the top, bears N.300 E.and S.300 W.; thence descend over broken clay and gypsum foot hills.

75.34 West foot of clay and gypsum foot hills, about I50 ft.below the top of sandstone mountain designated on the line at 44.50 chs., bears N.700 E.and S.700 W. Thence over almost level land, gradually descending to W.

78.80 Wash about 60 ft.wide and I5 ft.deep, drains S.700 W. 79.84 The cor.of secs.16,17,20 and 21.

This cor.is on the W.side of wash about 175 ft.below the top of mountain which skirts the Rio Virgin.

Land mountainous, broken and almost level.

Soil, on the low hills E.of river, sandy, gravelly and stony; 2nd. and 4th.rate. In the river bottom and in the farm rich sandy-clay loam, with indications of alkali on E.side of river; Ist.rate. Clay, stony and gypsum on ridges and foot hills W.of the river; 4th. rate.

No timber, except souttering cottonwood and black willow in river bottom.

Dense willow undergrowth on I2.45 chs.
Mountainous land on .24.50 chs.

The low hills and the pasture in river bottom afford good grazing.

June 9, I899:At this cor.of secs.16,17,20 and 2I, I set off 220 58' 30" N.on the decl.arc; and at 11h 59m a.m.,1.m.t., observe the sun on the meridian; the resulting lat.is 370 9' ... N.

N.00 4' E., bet. secs. 16 and 17.

Ascend foot of ridge over clay and gravelly soil; through scattering greasewood and iron wood undergrowth.

- I.78 | Trail bears S.800 W. and N.800 E.
- 7.60 Top of ridge about 50 ft.above the sec.cor., bears N. 600 E.and S.600 W.; descend on N.W.slope of ridge.

de d'

	* }	
	Chains.	
	10.60	Wash at foot of ridge, about 40 ft. below the top, 25
		ft.wide and six ft.deep,drains S.E.and. joins main
		wash.at about 4.00 chs.dist.Trail in wash bears S.
	***************************************	200 E.and H.200 W.; ascend S.E.slope of limestone
		ridge.
	14.10	Top of limestone ridge about 50 ft.above the wash,
		bears N.300 E.and S.300 W.; descend on N.W.slope of
	-	ridge.
	16.40	Wash at foot of ridge about 25 ft.below the top,
		about 8 ft.wide and 4 ft.deep, drains S.300 W., and
		joins last named wash at about 3.00 chs.dist.; ascend
	30.60	S.E.foot of main ridge about 75 ft.above the sec.cor.
		bears N.300 E.and S.300 W.; ascend rapidly on S.E.
		slope.
	40.00	Set a white limestone 20xI5x5 ins., I5 ins.deep in a
		mound of stone, for I/4 sec.cor., marked I/4 on W.
		face; and raised a mound of stone 2 ft.base, I 1/2 ft.
		high, W. of cor. Pits impracticable.Limestone surface
	٠	prevented setting cor.stone deeper.
		This cor.is on S.E.slope of limestone mountain about
		I50 ft.above the sec.cor.
	43.00	Top of limestone ridge or mountain, about 50 ft. above
		the I/4 sec.cor., bears N.200 E.and S.200 W.; descend
		rapidly over N.W.slope.
	52.00	Wash at foot of mountain about 50 ft.below the top,
		8 ft.wide and 4 ft.deep, drains S.400 W.; ascend S.E.
		slope of ridge.
	61.00	Top of ridge, about 75 ft, high, bears N.30 E. and S.
,	80.00	300 W.; descend on N.W.slope of ridge.
. ;	ŧ	North foot of ridge about 75 ft.below the top bears N.300Eand S.300 V.
ì		Set a gray limestone 20xI0x6 ins., I5 ins.in the
1	•	ground, for cor.of secs.8,9,16 and 17, marked with 4
1		notches on S.and F.edges; dug pits I8xI8xI2 ins.in
		each sec., 5 I/2 ft.dist.; and raised a mound of earth
	1	4 ft.base, 2 ft.high, W.of cor.
1		Land mountainous and broken.
	• ŧ	Soil, clay, gravelly and stony; 4th, rate.
;		Limestone on ridges W. and S.of I/4 sec.cor.
1	•	No timber. Mountainous land on 80.00 chs.
ì	,	NO CIMURI ". WHITE THE OF THE OF CO. O. C.

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Subdivisions of T.42 S., R.14 W.-Continued

STATES OF THE PARTY OF THE PART	Subdivisions of T.42 S., R.14 WContinued.
Chains.	
	N.890 37' E.on a random line bet.secs.9 and I6.
40.00	Set temp. I/4 sec. cor.
79.74	Intersect N. and S.line 26 lks.N.of cor.of secs.9,
n t	IO, I5 and I6.
	Thence I run
,	S.89° 48' W.on a true line bet.secs.9 and I6.
	Over broken ridges and clay-gypsum foot hills;
	through scattering greasewood and iron wood un der-
	growth. Descend abruptly.
0.50	Bottom of sharp hollow at foot of mountain about
	20 ft.below the sec.cor., drains S.800 W.to Rio Vir-
	gin; ascend on S.E.slope of riage.
2.35	Top of white sandstone ridge about 75 ft.high, bears
	N.400 E.and S.400 W.; descend on N.W.slope of ridge.
4.00	N.W.foot of sandstone ridge about 50 ft.below the
	top of ridge, bears H.300 E.and S.300 W.; descend over
	broken clay and gypsum foot hills, generally sloping
	Southwesterly.
21.00	Foot of clay and gypsum foot hills about 50 ft.
	below the foot of sandstone ridge, bears N.400 E.and
•	S.400 W.; descend gradually over clay bottom.
29.50	S.E.foot of clay and gypsum foot hills, bears N.200
	E.and S.200 W.
36.50	Wall of limestone about 20 ft.high bears N.30º E.
	and S.300 W. descend.
37.30	Wash at foot of ridge(limestone), about 10 ft.wide
	and IO ft.deep, drains S.200 W.; ascend.
39.87	Set a blue limestone 20xI0x4 ins., I5 ins.in the
•	ground, for I/4 sed.cor., marked I/4 on N.face; dug
	pits I8xI8xI2 ins., E. and W. of stone, 3 ft.dist.; and
	raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high,
	H.of cor.
51.29	Top of limestone mountain about 250 ft.above the I/4
	sec.cor., bears N.300 E.and S.300 W.; thence descend
	abruptly over N.W.slope.
55.00	Bottom of hollow at foot of mountain about 75 ft.
	below the top of mountain, cheans N.200 E.; ascend
	rapidly on S.E.slope of ridge.

Top of ridge about IOO ft.high, bears N.300 E.and S.

300 W.; descend over N.W.slope of ridge.

63.00

15.4

Chains. 7I.00 Foot of ridge about 200 ft.below the top, bears N.300 E.and S.300 W.; descend gradually over clay gravelly foot hills. The cor.of secs.8,9,16 and 17.

79.74 Land mountainous and broken, and nearly level land. Soil, clay, gravelly, sandy aggpsum and stony; 3rd. and 4th.rate. HK.Y

> Undergrowth, greasewood and iron wood. Mountainous land on 62.50 chs.

No timber.

Thence I run

12.00

15.90

June 9,1899.

June 10, 1899: At 9h, a.m.l.m.t., I set off 370 10' M.on the lat.arc; 250 3' N.on the decl.arc; and determine a true meridian with the solar, at the cor. of secs.8,9,16 and 17.

N.00 4' E.bet.secs.8 and 9. Ascend gradually over foot hills, in gravelly soil, through scattering iron wood and greasewood under-

growth. Limestone reef about I5 ft.above the sec.cor., bears H.E.and S.W.; descend.

Road from Washington to Berry Spring and Virgin City

at foot of limestone reef, bears N.500 E.and S.500 W. Foot of descent, about 20 ft.below limestone reef. 18.25

Wash 6 ft. wide and 4 ft. deep, drains S.300 W.; ascend. Foot of ridge about I5 ft.above the wash, bears N.300 26,50

Top of ridge about 20 ft.high, bears N.300 E. and S. 27,20

E.and S.300 W.; ascend S.E.slope of ridge.

300 W.; descend N.W. slope of ridge. Foot of ridge about 20 ft.below the top, bears N.300 27.80 E.and S.300 W.; ascend gradually.

Begin ascent of broken clay and gypsum foot hills, 34.00 about 50 ft.above the sec.cor., bears N.200 E.and S.200 W.

Set a red sandstone 18x10x6 ins., I2 ins.in the ground

Chains. for I/4 sec.cor., marked I/4 on W.face; dug pits I8x I8xI2 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, W.of cor. This cor. is about IOO ft. above the last sec. cor. 54,00 S.E.foot of burnt sandstone mountain, about 60 ft. above the I/4 sec.cor., bears N.400 E.and S.400 W.; ascend abruptly on S.E. slope. Leave gypsum&clay hills 64.57 Top of burnt sandstone mountain about 175 ft.above the foot, bears N.400 E. and S.400 W.; thence descend h abruptly over broken sandstone ledges. 69.00 Foot of sandstone mountain about 75 ft.below the top of mountain, bears N.300 E.and S.300 W.; descend more gradually. 7I.00 Wash in bottom of hollow at foot of descent, about. 25 ft.below the foot of mountain, about I2 ft.wide and 6 ft.deep, drains W.3.00 chs., thence S.200 W. Ascend. 71.60 Old road from Washington to Harrisburg bears 5.80° W.2.00 chs., thence S.W., and N.800 E. 75.60 Top of ascent about 25 ft.above the wash, bears E.and W.; descend gradually. 76.70 Old road from Washington to Harrisburg, bears. 5.850 W.and N.85° E. 80.00 Set a white limestone I8xI2x4 ins., I2 ins.in the ground, for cor. of secs. 8 and 9 on S.bdy. of sec. 4, marked with 5 notches on the S.and 4 notches on E. edges; and raised a mound of stone 2 ft.base, I 1/2 ft.high, S.of cor. Pits impracticable. Land mountainous, broken and rolling.

Soil, clay, gravelly, gypsum and stony; 3rd. and 4th.rate.
No timber.
Undergrowth, greasewood and iron wood.

Mountainous land on 65.00 chs.

40.00

North,890 48' E.on a random line bet.secs.4 and 9. Set temp.I/4 sec.cor.

74.15 The closing cor.of secs.3 and 4, already des cribed.

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F8.35 Top of sandstone mountain about I75 ft.above the foot, bears W.E.and S.W.; descend abruptly over W.W. slope of mountain.

hills.

S.F. slope of mountain; leave clay and gypsum foot

63.00 Wash in bottom of hollow at foot of mountain, about

about IOO ft.below the top of mountain, about 6 ft. Chains. wide and 6 ft.deep, drains S.500 W., along the foot of the mountain. Ascend on S.E.slope of hollow. Top of ascent, about 50 ft. above the wash, bears N.E. 74.20 and S.W.; descend gradually. 75.20 Old road from Washington to Harrisburg bears S.100 W.and N.IOO E. The cor.of secs.8 and 9 on S.bdy.of sec.4, at about 79.76 56.006 I20 ft.below the top of mountain range. Land, nearly level, broken foot hills, and mountainous. Soil, clay, gypsum, gravelly and stony; 3rd. and 4th.rate. No timber. Undergrowth, greasewood and iron wood. Mountainous land on 56.00 chs. Begin at the cor.of secs.8 and 9 on S.bdy.of sec.4, already described, and run S.890 46' W., bet.secs.4 and 8. Descend over stony ground; through scattering greasewood and iron wood undergrowth. I.00 Bottom of hollow about 25 ft.below the sec.cor., drains S.W.; ascend. Top of hollow, about IO ft. above bottom of hollow, 3.40 bears S.W. and N.E.; thence descend gradually. 7.50 Telegraph line and old road bears S.W.and N.E. 7.90 Intersect E.bdy.of sec.5, at 5.05 chs.N.00 39' W.of the old cor.of secs.4,5,8 and 9, which is a white sandstone 4xI0x8 ins.ahove ground, marked and witnessed as described by the Surveyor General. Set an iron stone 25x12x4 ins., I9 ins.in the ground, for closing cor.of secs. 4 and 8, marked CiC., withteh-4. grooves, on E. and 5 grooves on S. faces, and raised

secs.4,8, and 9, and re-mark the stone for sec.5 only; and raised a mound of stone 2 ft.base, I I/2 ft.high,

I obliterate the marks on the old cor.pertaining to

Pits impracticable.

a mound of stone 2 feet base 1-1/2 ft. high E. of Cor.

	Chains.	N.W.of cor.
		Pits impracticable.
,		Land rolling.
		Soil, clay, gravelly and stony; 4th.rate.
		No timber.
		Undergrowth, greasewood and iron wood, with service
•		berry on N.W.slope of mountain.
		June 10,1899.
		From the cor.of secs.5,6,3I and 32,on the S. bdy.
		of the Tp., which I established May 24,1899, as de-
./		scribed in Book "A" ,I run
		N.O 4' E., bet.secs.3I and 32.
•		Descend over broken sandridges sloping N.V.; in rich
		sandy, gravelly soil; through scattering greasewood
		sage and iron wood undergrowth.
	27.40	Fort Pierce wash at foot of descent, about 75 ft.
		below the sec.cor., about 25 ft.wide and IO ft.deep,
		drains in broken general course N.60° E.along the
		foot of mountain , W. side of Werner's or Fort Pierce
		canon.
		Road in wash from Fort Pierce to Washington follows
		the wash to the river bottom.
		Ascend on E.slope of sandridges in sandy stony ground
		leave rich sandy soil bears M.E.and S.W.
	36.00	Wash about IO ft.wide and 4 ft.deep, drains E.about
		I.00 ch, thence S.600 E.about 2.00 chs.to Fort Pierce
	-	wash.
	40.00	Set a gray sandstone 20x16x5 ins., 15 ins.in the
	er en	ground, for I/4 sec.cor., marked I/4 on W.face; dug
	a di Constantino	pits I8xI8xI2 ins., N. and S.of stone, 3 ft.dist.; and
*		raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high,
		W.of cor.
		The cor.is on S.E.slope of sandridge about IOO ft.
4	3. Annual 12 ann	above the Fort Pierce Wash.
	57.80	Foot of main ridge or mountain, top of sandridges,
	07.00	
•		about 50 ft.above the I/4 sec.cor., bears N.E. and S.W.
	i	Ascend abruptly on S.E.slope of sandstone mountain.

Chains.		
80.00	Set a gray sandstone 30x16x12 ins.,23 ins.deep in	
	a mound of stone, for cor.of sec.29,30,31 and 32,	
ř	marked with i notch on S.and 5 notches on E.edges;	,
	and raised a mound of stone, 2 ft.base, I. I/2 ft.high,	,
	W.of cor. Pits impracticable. Sandstone surface pre-	
	vented setting the cor.stone deeper.	
	Land mountainous and broken.	
	Soil, sandy and gravelly, and stony; 2nd. and 4th.rate.	
	No timber.	
	Undergrowth, greasewood, sage and ciron. wood.	
	Good grazing on ridges when supplied with moisture.	
	Mountainous land on 80.00 chs.	
	This cor.is near top of sandstone mountain about 250	
	above the I/4 sec.cor.	
		,
	East, on a random line bet.secs.29 and 32.	
40.00	Set temp. I/4 sec. cor.	
79.94	Intersect N.and S.line 26 lks. S.of cor.of secs.	
:	28,29,32 and 33.	
	Thence I run	
	S.890 49' W.on a true line bet.secs.29 and 32.	
	Descend over broken clay, sandy, gravelly and stony	
	foot hills; through scattering greasewood, sage and	
	iron wood undergrowth.	
0.20		
- •	Ravine in bottom of hollow, about IO ft. below the	

4.00 Top of sandridge, about 50 ft.above the sec.cor., bears N.100 W.and S.100 E.; descend on W.slope of ridge.

ascend,

36.44

- 9.24 Wash about IO ft.wide and 5 ft.deep, heads at foot of perpendicular ledges ISO ft.high, about 7.00 chs.S.E. and drains N.400 W.
- 34.94 Top of sandstone ledges about IOO fi. below the sec.cor., bears N.W. and S.E.; trail bears
 - N.and S.; descend abruptly over broken ledges.

 E.side of ravine at foot of ledges, about 50 ft. below top of ledges, drains N.about I.00 ch.and thence N.

William Activity

. ,	Subdivisions of T.42 S., R.14 WContinued.
Chains.	30° W.; thence along bottom of ravine.
39.97	Set a gray sandstone I8xI2x5 ins., I2 ins.in the .
	ground, for I/4 sec.cor., marked I/4 on M.face; and
	raised a mound of stone, 2 ft.base, I 1/2 ft.high, N.
	of cor. Pits impracticable. Cor.in ravine.
	A small spring and water trough bears S.20° E.
	about 6.00 chs.dist.; drains N.200 W.into ravine and
	sinks in sandy bottom.
	Ascendesteep N.W.slope of ridge W.side of ravine.
51.34	Top of ridge about 50 ft.above the I/4 sec.cor., bear
	N.W.and S.E.;
51.54	Trail from spring bears N.300 W.and S.300 E.
	Descend abruptly.
63.30	Fort Pierce wash about 75 ft.below where abrupt de-
	scent begins, about 40 ft. wide and 6 ft. deep, drains
	on winding general course, N. 200 E. Road in bottom of
	wash follows course of wash.
	Ascend broken sandridges and sand rrifts.
66.44	Top of sandridges and sand-drifts about 50 ft.above
,	the wash, and foot of sandstone and granite mountain;
	bears N.200 E.and S.200 W.; ascend abruptly over
	broken ledges.
79.94	The cor.of secs.29,30,31 and 32,about 250 ft.above
	foot.of mountain, and about IQ ft.below the top of
	mountain,known as Warner Range.
	Land mountainous and broken.
	Soil, sandy, gravelly, clay and stony; 3rd. and 4th.rate.
	No timber
	Undergrowth, sage, greasewood and iron wood.
	Mountainous land on 79.94 chs.
[June I2, I899:At this cor.at I2 M., l.m.t., I set
	off 230 11' N.on the decl.arc; the clouds obscured
	the suns observation, and therefore I could not record
	the reading of the lat.arc.

Knowing I will close on the W.bdy.out of limit, I run West on a true: line bet.secs.30 and 31.

Over stony, sandy gravelly and clay ground; through scattering sage, greasewood and iron wood undergrowth.

,	Subdivisions of T.42 S., R.I4 WContinued.
Chains	
0.58	Top of sharp sandstone mountain, known as Warner Range,
	about IO ft.above the sec.cor., bears N.400 E.and S.
•	40° W.; descend over almost perpendicular and broken
	ledges about 20 ft.high; and thence over abrupt N.W.
	slope of mountain.
9.38	N.W.foot of mountain about 200 ft.below the top,
	bears N.40° E.and S.40° W.; thence descend over broken
	sandy gravelly foot hills sloping N.W.
34.98	Trail bears N.IOO E.and S.IOO W.
35.10	Wash at foot of descent, about 275 ft. below the sec.
•	cor.,drains N.200 E.; ascend over broken sandy grav-
	elly ridges.
40.00	Set a blue limestone I8xI0x5 ins., I2 ins.in the
	ground, for I/4 sec.cor., marked I/4 on N.face; dug
•	pits I6xI8xI2 ins., E. and W. of stone, 3 ft.dist., and
	raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high,
	N.of cor.
	This cor.is about 50 ft.above the wash.
56.00	Wash at foot of spur of limestone ridges about 50
	ft.above the I/4 sec.cor., about 30 ft.wide and 4 ft.
·	deep, drains S.300 E.; ascend spur of ridge.
62.00	Top of spur of ridges, about 100 ft.high, bears N.100
	E.and S.100 W.; descend over W.slope of spur.
67.60	Wash at W.foot of spur and E.foot of main ridge,
	about I25 ft.above the I/4 sec.cor., about 8 ft.wide
	and 3 ft.deep, drains S.200 E.
	Begin ascent of S.E.slope of main ridge which bears
80.00	11.300 E.and S.300 W.
00,00	Top of ascent on the S.E.slope of mountain or ridge, about 175 ft.above the I/4 sec.cor., bears N.200 E.
•	and S.200 W.; descend into hollow.
83.00	Bottom of hollow at foot of mountain about 50 ft.
00.00	deep, drains 8.30° E.; ascend abruptly.
85.35	Intersect the W.bdy.of the Tp.,6.57 chs. N.00 24' W.
, and	of the cor.of secs.25,30,31 and 36,heretofore de-
	scribed-Sec notes of retracement of W.bdy.of this
	Tp.Book "B" Targe Set a porphyry stone 26x
	9x6 ins.,20 ins.deep in a mound of stone, for closing
	cor.of secs.30 and 31, marked C.C.on E.; with I groove

on S., and 5 grooves on N.faces; and raised a mound of

•	Subdivisions of T.42 S., R.14 WContinued.
 Chains.	stone 2 ft.base, I J/2 ft.high, E.of cor. Pits impracticable.
	I re-mark the old cor.of secs.25,30,3I and 36,for cor.of secs.25 and 36 T.42 S.,R.I5 W.,only;
\$	Land mountainous and broken. Soil, stony, sandy, gravelly and clay; 4th. and 3rd.rate.
# # #	No timber.
	Undergrowth, sage, greasewood and iron wood.
1	Native grasses on ridges.
	Mountainous land on 85.35 chs.
Consequence of the consequence o	
	June 12,1899:At 3h 30m, p.m.l.m.t., I set off 370.8'
	N.on the lat.arc; 230 12' N.on the decl.arc; and deter-
	mine a true meridian with the solar, at the cor.of
	secs.29,30,31 and 32.
	Thence I run
	N.0° 4' E.bet.secs.29 and 30.
	Over sandy, stony, clay and gravelly soil; through scattering sage, greasewood, cactus and iron wood
	undergrowth.
	Ascend S.E.slope ofsandstone mountain.
0.46	Top of sharp sandstone mountain, known as Warner
\$ }	Range, about IO ft. above the sec. cor., bears N.40° E.
1	and extends to the Virgin River, and S.400 W.; descend
	abruptly over M.W.slope of mountain.
10.00	N.W.foot of mountain about 200 ft.below the top,
	bears N.40° E.and S.40° W.; thence descend more grad- ually over broken sandy ridges and foot hills, slop-
	ing N.W.
20,00	Foot of broken ridges and sandy foot hills, about 250
	ft.below the sec.cor., bears N.300 E.and S.300 W.;
	thence over rolling sand hills and ridges;
40.00	Set a gray granite stone 30xI2x8 ins.,23 ins.in the
	ground, for $I/4$ sec.cor., marked $I/4$ on V . face; dug
	pits I8xI8xI2 ins., N. and S. of stone, 3 ft.dist.; and
1	,

raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, W.of cor. This cor.about 275 ft.below the sec.cor.

** * * * *	
Chains.	
40.10	Trail bears N.30° E.and S.30° W.
43.00	Wash at foot of descent about 15 ft.below the I/4 sec.
	cor., about I5 ft.wide and 5 ft.deep, drains N.600
,	E., about 4.00 chs.; thence on general course of N.300
	E.to the Virgin River.
	Ascend over broken sandridges sloping generally
•	about N.20° E.
56.15	Top. of ascent about 25 ft. above the wash, bears N.E.
	and S.W.; descend.
62.55	Foot of descent about 25 ft.below the top, bears N.E.
	and S.W.; begin ascent of mountain sloping S.20° E.
63.00	Trail bears S.40° W., and N.40° E. to Rio Virgin.
80.00	Set a gray quartzite or flint stone I6xI0x8 ins.,11
-	ins.in the ground, for cor.of secs.19,20,29 and 30,
	marked with 2 notches on S.and 5 notches on E.edges;
	dug pits I8xI8xI2 ins.in each sec.,5 I/2 ft.dist.;
•	and raised a mound of earth, 4 ft.base, 2 ft.high, W.
	of cor.
	Land mountainous and broken ridges and foot hills.
٠	Soil, sandy and stony, gravelly and clay; 2nd.4th.and
	3rd.rate.
	No timber.
٠,	Greasewood, sage, iron wood and native grasses and
	shrubbery on ridges and foot hills.
	Mountainous land on 80.00 chs.
	June 12,1899.
·	
•	N.89º 49' E.on a random line bet.secs.20 and 29.
40.00	Set temp. I/4 sec. cor.
80.04	Intersect N. and S.line IO lks.N.of cor.of secs.20,21,
	28 and 29.
- '	Thence I run
- 1	S.89° 53' W.on a true line bet.secs.20 and 29.
	Along the bottom of Fort Pierce wash; over sandy,
Ì	gravelly, stony and clay ground; through scattering

0.55 | West bank of wash about 8 ft.high, bears N.E.and S.;

sage, greasewood, iron wood, cactus and native grasses.

Chains.	ascend broken foot hills.
3.50	E.foot of volcanic reef, about 30 ft. above the sec.
	cor., bears N.200 E.and S.200 W.F. ascend abruptly.
4.00	Top of volcanic reef about 40 ft.above the sec.cor.,
4	bears N.200 E.and S.200 W.; descend W.slope of reef.
6.50	West foot of reef and E.foot of granite-sandstone
} *	mountain, about 25 ft. above the sec.cor.bears N.300
	E.on general course to the Rio Virgin, and S.30° W.;
	ascend abruptly on S.E.slope of mountain.
15.00	Top of mountain about 350 ft.above the sec.cor.,
	bears N.40° E.and S.40° W.; descend abruptly over
is of the state of	broken ledges and steep side of mountain on N.W.
	slope.
22.50	Bottom of hollow at W.foot of mountain, about 300 f.t.
77	below top of mountain, drains N.300 W.; ascend spur at
	foot of mountain.
23.17	Top of spur about 50 ft.above the foot of mountain,
	bears N.300 W. and S.300 E. and joins main ridge at
and the second s	about 4.00 chs. dist.; descend.
25.00	Ravine at foot of descent about I5 ft.deep and 20 ft.
	wide drains N.250 W.; ascend spur of mountain.
25.50	Top of spur about 20 ft.above the ravine, bears N.300
	W.and S.300 E.; descend over broken spurs of mountain
	and ridges, and broken foot hills, sloping N.200 W.
33.50	Wash in hollow at foot of broken sandridges and
	spurs of mountain, about 400 ft. below top of the
i i i	mountain, about IO ft. wide and 6 ft. deep, drains N.
1	400 W.; ascend over broken sandridges.
40.02	Set a volcanic stone I6xI0x8 ins., ll ins.in the
j	ground, for I/4 sec.cor., marked I/4 on W.face; dug
	pits I8xI8xI2 ins., E. and W. of stone 3 ft.dist.; and
	raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high,
	N.of cor. Continue ascent over broken ridges drained
•	by numerous small hollows and washes, with a general
	course of W.and W.W.
52.50	Wash about I6 ft.wide and 6 ft.deep, drains N.300 E.
53.40	Trail bears N.300 E.and S.300 W.
61.30	Trail bears N.30° E.and S.30° W.

63.45 Trail bears $\rm H.30^{\circ}$ E.and $\rm S.30^{\circ}$ W.

64.50 Begin ascent of mountain about 50 ft.above the I/4

sec.cor., bears N.400 E. and S.400 W.;

thence on S.E.slope of mountain. Chains. 80.04 The cor. of secs. 19,20,29 and 30. This cor.is about IOO ft.above the I/4 sec.cor. Land mountainous and broken ridges and foot hills. Soil, stony, sandy, gravelly and clay; 4th. 2nd. and 3rd. rate. No timber. Undergrowth and vegetation, greasewood, sage, cactus, iron wood, native grasses and shrubbery. Mountainous land on 80.04 chs. June I3, I899: At I0h a.m., l.m.t., I set off 370'9' N.on the lat.arc:230 14' N.on the decl.arc; and determine a true meridian with the solar, at the cor. of secs. 19,20,29 and 30. Thence I run W.on a true line bet.secs. 19 and 30. Over broken ridges; in gravelly clay and sandy soil; through scattering greasewood and iron wood undergrowth. Ascend E.slope of ridge. 3.60 Top of ridge about IO ft.above the sec.cor., bears II. and S.; descend over M.slope of broken ridges sloping to N.and N.W. 5.45 Bottom of hollow about 50 ft.below top of ridge, drains N.IOO W.; ascend E.slope of ridge. 6.50 Top of ridge W.side of hollow, about 20 ft. above the hollow, bears M. IOO W. and S. IOO E.; descend. Bottom of hollow about 40 ft.below top of ridge, 8.50 drains N. IOO E.; thence descend over top of ledges at head of ravine, which drains N. IOO W. Leave head of ravine and descend over W.slope of I2.50 ridge. Bottom of hollow at W.foot of ridge about 75 ft. I7.50 below the sec.cor., drains N.200 W.; Wash in bottom of same hollow, about 6 ft. wide and 4 I8.60 ft.deep, drains N.200 W.; ascend E.slope of ridge.

Top of ridge about 40 ft.above the wash bears, H. 100

W. and S. IOO E.; descend.

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Subdivisions of T. 42. S., R. 14. W. - Continued.

Chains. Bottom of hollow about 30 ft.below the top of ridge, 22.80 drains N.200 W.: ascend. Top of ridge about 25 ft.high, bears N.W. and S.E.; 24.40 descend. Wash in bottom of hollow about 20 ft.below top of 26.50 ridge, about 4 ft. wide and 4 ft. deep drains N.; thence ascend. Top of sharp ridge about 50 ft.high, bears 5.800 E. 30.50 and N.80° W.; descend into hollow. Trail bears N.and S. 35.30 Wash in bottom of hollow about 50 ft.below top of 36.50 sharp ridge about 4 ft.wide and 4 ft.deep, drains N. 400 W.ascend. Top of ridge about 50 ft.above the ravine or wash 39.20 bears N.and S.; descend W.slope of ridge. Set a gray limestone I6x8x6 ins.,ll ins.in the ground 40.00 for I/4 sec.cor., marked I/4 on N.face; dug pits I8xI8 x12 ins., E. and W. of stone 3 ft.dist,; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, N.of cor. Cor.is about 40 ft.below top of last ridge. Bottom of hollow about IO ft.below the I/4 sec.cor., 40.65 drains N.: ascend. Top of ridge about 40 ft.high, bears N.and S.; descend 4I.50 Wash in bottom of hollow about 30 ft.below top of 44.30 ridge, 3 ft. wide and 3 ft. deep, drains N.; dascend . Top of ridge about 40 ft.high, bears N.and S.; descend 46.50 Wash in bottom of hollow about 30 ft.below top of 48.50 ridge about I5 ft.wide and 6 ft.deep, drains N. IOO W.; Wash in bottom of same hollow, about 4 ft. wide and 4 49.80 ft.deep,drains N.300 W.; ascend. Top of ridge W.side of hollow about 25 ft.high, bears 51.50 N.200 W.and S.200 E.; descend. Hollow at foot of ridges or mountain about 25 ft.dep 55.90 deep, drains N.100 E.; thence over broken sandy foot hills, sloping N. and N. W., he does and lyleave beave clay, gravelly and stony (ground and enter sandy 80.00 loamy soil, bears N. and S. Bottom of hollow about 50 ft.below the I/4 sec.cor., 83.80

drains N.300 W.; ascend S.E.slope of ridge. . .

Chains. Intersect W.bdy.of the Tp.5.90 chs., N.0040! W.from 85.65 the old cor.of secs.19,24,25 and 30, heretofore described-Sec retracement of W.bdy.of Tp.Book $oldsymbol{\mathcal{B}}$.Set a blue limestone 24x12x5 ins., 18 ins. in the ground, for closing cor.of secs. 19. and 30, marked C.C.on E.; with 2 grooves on S.and 4 grooves on N.faces; dug pits 24x18x12 ins.crosswise on each line N.and S.3 ft., and E.of stone 7 ft.dist.; and raised a mound of earth, 4 ft.base, 2 ft.high, E.of cor In re-marked the fold, cor. of secs. I.9, $24 extit{/}25$ and $extit{!}30$ for. corlof secs.24 and 25, T. 42 S., R. 15 W., only. Seit, eta. Governo Grant Galler en Carl, Brangath., Band, mountainous, broken ridges and foot hills, with drainage toward the Virgin River. Soil, stony, sandy, clay, gravelly and sandy loam; 4th. 3rd.and 2nd.rate. No timber. Greasewood and iron wood undergrowth; native grasses and shrubbery. Mountainous land on 85.65 chs. N.00 4' E. bet.secs. 19 and 20. Over broken gravelly and stony ridges; through scattering greasewood and iron wood undergrowth. Ascend.

- 3.00 Top of ascent about 15 ft.above the sec.cor., bears N.200 E.and S.200 W.; descend abruptly.
- Washington canal at foot of ridges about I25 ft.
 below the sec.cor., about I4 ft.wide and 6 ft.deep,
 filled with fresh water from the Rio Virgin, heads
 at Washington dam, runs moderate current, curving to
 5.800 W. about I0.00 chs.dist.; thence N.700 W.and
 crosses the I/2 quarter sec.line at about 20.00
 chs. W.of the N.and S.sec.line.
- N.side of canal in river bottom; enter Charles Westover's farm and pasture which bears E. about 40.00 chs.and W.and N.W.about 40.00 chs.in river bottom.

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to his dwelling houses, corralls, garden and orchard, Chains. near center of sec. 19; and thence about 40 acres of. farm in S.I/2 of N.W.J/4 of sec. 19 bet. the canal and Virgin River.. N.foot of the bank of canal about 25 ft.below the 20,00 canal. At 42.30 chs. the point for the Meander cor. falls on changeable bank S.side of Rio Virgin, subject to overflow during high floods and cannot be safely set, therefore, at this point I establish a witness cor.as follows: Set a white sandstone 20xI2xI2 ins., I5 ins.in the ground, for witness cor. to the meander cor.of fractional secs. 19 and 20 on S. bankd of the Rio Virgin, marked W.C.-M.C.-on N.face; with 5 grooves on E.face; from which A cotton wood 20 ins.diam, bears N.610 25' E., 169 I/2 lks.dist., marked W.C.-T.42 S.-R.I4 W.-S.20-M.C.-B.T. A cottonwood I9 ins.diam, bears N.830 45' W., II3 I/2 lks.dist., marked. W.C.-T.42 S.-R.I4 W.-S.I9-M.C.-B.T. June 13,1899:At this witness cor.for meander cor, the sky is overcast at I2 O'clock M.and solar observation to determine the reading of the lat.arc.is impossible. 20.75 Irrigation canal about 3 ft.wide and 2 ft.deep, drains S.800 W. 20.85 A row of cottonwood trees bears N.800 E. and S.800 W. thence across Charles Westover's lucerne ground. 23.35 Leave lucerne ground and enter pasture land bears. E.and W. Live cottonwood and dry willow dence on N side of 30.06 farm and pasture bears E.and W.; irrigation canal S. side of fense about 3 ft.wide and 2 ft.deep drains W. Leave farm and pasture and enter sandy, gravelly river bottom; through medium dense willows and scattering cotton wood and ash timber; also black willow black willow timber.

The point for the I/4 sec.cor.falls in the river bottom subject to overflow at time of floods and

40.00

,	, vivilano,
Chains.	lighte to be covered with code
·	de de la constant de
	running from Washington canal and cannot be safely
	established. I drove a cottonwood stake 4 ft.long,
42.30	4 ins.diam. ,36 ins.in the ground at the cor.point.
40.00	Point for the meander cor.of fractional secs. 19 and
	20 falls on unsafe ground, and is already witnessed.,
	22.30 chs. S.of this point. This being the nearest
	point on the line at which to safely establish a
	witness corner.
	Charles Westover's dwelling houses, corralls, stables
•	etc., with garden on S. and orchard and farm on W.
	and N.W., bears W.about 43.00 chs.
43,75	S.edge of the water of the Rio Virgin at or near low
	water mark, now about IOO ft.wide and IO ins.deep,
	rapid current, gravelly bottom, muddy fresh water,
	runs S.700 W.
45.25	Enter dense willow undergrowth bears E.and W.
45.F5	The W.bank of the Rio Virgin.
	Set a yellow sandstone 24x12x5 ins., I8 ins.in the
	ground, for meander cor.of fractional secs. 19 and 20,
	marked
1	M.C.on S.face; with 5 grooves on E.face; dug a pit 36
	x36x12 ins.,8 ft.N.of stone; and raised a mound of
	earth and stone 4 ft.base, 2 ft.high, W.of cor.
45.90	Leave dense willow undergrowth and enter scattering
	willows bears E. and W.
46.00	Set a volcanic stone 20xI2x8 ins., I5 ins.in the
	ground, for witness corner to the I/4 sec.cor., marked
	W.C. on S.face; with I/4 on W.face; and raised a
	mound of stone 2 ft.base, I I/2 ft.high, W.of cor.
	Pits impracticable. This cor. is about IO ft. above the
	river bed, at S. foot of low bench.
	Leave willows and enter scattering greasewood and
	iron wood bears E.and W.; ascend S.slope of bench.
46.30	Irrigation canal, average about 4 ft. wide and 3 ft.
	deep, filled with fresh water from Rio. Virgin, heads
	at the Washington dam, drains S.750 W.about 5.00 chs.
	thence about N.300 W.
46.88	Road from Washington to the farms in the River bot-

tom and Virgin City bears S.850 W.and N.250 E.; Leave sandy gravelly soil&enter sandy loamy soil

60.I5

6I.80

70.00

75.80

00.08

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Subdivisions of T.42 S., R.14 W.-Continued.

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Chains. bears E.and W.

foot hills.

Road from Washington to farms in River bottom and Virgin City, bears S.850 W.and N.850 E.

W.side of Ormond Wilkins farm, about 40 acres under cultivation, bears E.about I2.00 chs.dist.

Ormond Wilkins cabin bears E.about 45.00 chs.dist.

Ormond Wilkins cabin bears E.about 45.00 chs.dist.
Road from Washington to farms in river bottom and
Virgin City, bears N.300 E., and joins last named road
S.300 W. about IO.00 chs.dist.

S.300 W. about J0.00 chs.dist.

E.side of George Prince's farm and pasture, with

about 20 acres cultivated land, bears W.about 23.00 chs.dist.

Top of ascent about 50 ft.above the river bottom, bears N.E.and S.W.; thence descend in clay gravelly soil; leave sandy loamy soil, bears E.and W.

Foot of descent about 20 ft.below top of ascent,
bears N.E.and S.W.; thence over almost level clay
flat or basin.

Road from Washington to Harrisburg branch road and
Berry Spring Land Virgin City ,bears S.400 W., and
joins other road N.400 E.about 20.00 chs.dist.
Leave clay flat or basin and ascend S.slope of broken

bears S.200 W.and N.200 E.; descend N.W.slope of ridge.
Wash at foot of descent about 20 ft.below top, about

20 ft.wide and 6 ft.deep, drains S.200 W.about 2.00

Top of ascent about 25 ft. above the basin or flat,

chs.; thence S.80° W.about 4.00 chs.; thence S.20° W. to the river bottom; ascend sandridges.
Set a volcanic stone I8x6x6 ins., I2 ins.in the ground for cor.of secs. I7, I8, I9 and 20, marked with 3 notch-

es on the S. and 5 notches on E.edges; dug pits I8x18

x12 ins., in each sec., 5 I/2 ft.dist.; and raised a

mound of earth, 4 ft.base, 2 ft.high, W. of cor.

This cor. is on low foot hills about 60 ft.above the river bottom.

river bottom.

Land, mountainous , almost level river bottom, low bench

and broken foot hills.
Soil, S. of river bottom gravelly and stony; in river bottom, rich sandy loam intermixed with coarse wash

Chains. sand; on the bench and low ridges N.of river bottom, rich sandy and clay soil, slightly intermixed with gravel; -4th. and 2nd.rate. No timber, except scattering cottonwood, black willow and ash in the river bottom. Undergrowth on benches and mountain ridges greasewood and sage; in the river bottom willows. Water rush and willow in the river bottom afford good pasturage. Mountainous land on 31.50 chs. $\rm N.89^{\rm O}$ 53' E.on a random line bet.secs.I7 and 20. 40.00 Set temp I/4 sec.cor. 79.82 Intersect N. and S.line 23 lks. S. of cor. of secs. 16, 17, 20 and 21. Thence I run S.890 43' W.on a true line bet.secs. 17 and 20. Over gravelly and stony ground and broken ridges and foot hills; through scattering greasewood and iron wood undergrowth. Ascend S.E.slope of ridge. 9.20 Top of ridge about 25 ft.above the sec.cor., bears S. about I.00 ch.; and N.200 E.; descend. 10.00 Foot of ridge about 20 ft.below top of ridge bears If. 100 E.and S.100 W.; thence along broken foot hills on S.and S.E.slope. 27.30 Wash IO ft.wide and 3 ft.deep heads in gravelly ridge about 8.00 chs.N. and drains S.IOO E. Set a gray limestone 20xI0x6 ins., I5 ins.in the 39.9I ground, for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone 2 ft.base, I I/2 ft.high, N. of cor. Pits impracticable. This is on S.E.slope of limestone spur of mountain,

Top of spur of mountain about 20 ft.above the I/4 sec.cor., bears S.30° E.and N.30° W.and joins main ridge or mountain; descend over S.W.slope cut up with numerous small washes and hollows.

about 50 ft.above the sec.cor.

4I.30

130:

Subdivisions of T.42 S., R.14 W.-Continued.

Chains. Leave foot of mountain bears II.; ascend. 52.80 Road at top of ascent about 25 ft.ahove the foot of 59.65 mountain, bears N.; and S.I.00 ch., and thence S.300 E. Descend, over surface cut up with small washes and hollows which drain S.W. Old road bears N.100 W.and S.300 E.about 1.00 ch.; 64.00 thence S.800 W. Road from Washington to Berry Spring and Virgin City 70,60 bears S.100 W.and N.100 E. Wash at foot of descent about 75 ft.below the I/472,40 sec.cor., about 27 ft. wide and 5 ft. deep, drains 5. 30° W.about 2.00 chs., W.about 3.00 chs., thence 5.20° W.; ascend. The cor.of secs. 17, 18, 19 and 20. 79.82 Land mountainous and broken foot hills and bench. Soil, clay, gravelly, stony and sandy; 4th.3rd.and 2nd. rate. Limestone on spur of ridge near 1/4 sec.cor. lite of No timber. The drainage is all toward the river bottom. Mountainous land on 52.80 chs. West on a true line bet.secs. 18 and 19. Over broken ridges and foot hills; in clay, gravelly stony and gypsum soil; through scattering greasewood and iron wood undergrowth. Tash drains southwesterly. Wash IO ft.wide and 8 ft.deep drains S. 5:00 25,40 George Prince's farm in river bottom bears S.about 20.00 chs. Begin very abrupt ascent on S.E. slope of mountain, 36.00 bears N.E. and S.W., about I20 ft. above the sec.cor. Foot of ledges, almost perpendicular, about I50 ft. 39.95 above the sec.cor., bears N.300 E. and S.300 W.; ascend abruptly over broken ledges. Top of ledges on S.E. slope of high mountain about 40.00 200 ft.above the sec.cor. Set a red burnt samdstone 24x12x8 ins.,18 ins.in the ground, for I/4 sec.cor., marked I/4 on N.face; and

Chains. raised a mound of stone 2 ft.base ,I I/2 ft.high, Pits impracticable; the cor.is on steep. side of mountain. Charles Westover's cabins on S.side of the Rio Virgin ,bears 5.50 W. about 35 and 37 chs.dist.respectively. Top of granite and sandstone mountain about 125 ft. 58.75 above the I/4 sec.cor., bears S.400 W.and N.400 E.; thence descend over N.W.slope of mountain. 86.23 Intersect the W.bdy.of the Tp.,5.08 chs., N. 00 20' W.of the old cor.of secs. 13, 18, 19 and 24, as described in retracement of the W.bdy.of this Tp.-See Book .Set a gray sandstone 30x8x8 ins., 23 ins. deep in a mound of stone, for closing cor. of secs. I8 and I9, marked C.C.on E.face; with 3 grooves on N. and S.faces; and raised a mound of stone 2 ft.base, I I/2 ft.high, E.of cor. Pits impracticable. Hard sandstone prevented setting the cor. stone deeper. I destroy the marks on the old cor.pertaining to secs. I8 and I9, and re-mark the stone for cor. of secs. I3 and 24, T. 42 S., R. I5 W., only. The closing cor.is on M.W.slope of high mountain about 50 ft.below the top of mountain. Land mountainous and broken foot hills and ridges. Soil, clay, stony , gypsum and gravelly; 3rd. and 4th. rate. No timber. Greasewood and iron wood undergrowth; shrubbery and native grasses on foot hills, ridges and top of

June 13,1899.

N.00 4' E., bet.secs. I7 and I8.

Over broken foot hills, mountains and ridges; in clay sandy stony ground; through scattering greasewood, and iron wood undergrowth.

Ascend.

mountain.

Mountainous land on 86.23 chs.

ķ	Chains.	
	3.00	Wash about 4 ft.wide and 3 ft.deep, drains S.200 W.
		and crosses E.and W.line at about 5.00 chs.W.of sec.
		cor.
	4.22	Trail bears S.200 W.and H.200 E.
	12.00	Enter clay and gypsum broken foot hills about 25 ft.
		above the sec.cor., bears N.30° E.and S.30° W.
	20.32	Top of clay gypsum foot hills and ridges, about 100
		ft.above the sec.cor., bears N.300E and S.300 W.;
		descend over N.W.slope.
	24.00	Wash in bottom of hollow about 30 ft.below the top
		of clay-gypsum foot hills, about 4 ft. wide and 4 ft.
	•	deep, drains S.200 W.; thence ascend on S.slope of clay
		gypsum foot hills.
	3000	Foot of mountain about 100 ft.above the sec.cor.,
		bears N.350 E.and S.350 W.; leave clay-gypsum foot
		hills and ascend abruptly over broken ledges on S.E.
		slope of mountain.
	36.95	Top of mountain about 200 ft.above the sec.cor.,
		bears N.400 E.about 50.00 chs., and adjoins the princi-
-		pal range of mountains at a dist ance of about 50.00
	•	chs.,S.400 W.; descend abruptly over boulders at top
		of mountain.
	37.14	Foot of boulders about 25 ft.below the top of moun-
		tain bears N.400 E.and S.400 W.; thence descend more
		gradually.
ļ	40.00	Set a yellow burnt sandstone 24xI0x5 ins., J8 ins.in
		the ground, for I/4 sec.cor., marked I/4 on W.face;
		dug pits I8xI8xI2 ins., N. and S. of stone 3 ft.dist.,
		and raised a mound of earth, $3.1/2$ ft.base, $1.1/2$ ft.
		high, W. of cor.
	50.25	"Twist"road from Virgin city and Berry spring and
		farms in river bottom to Harrisburg am Washington
		bears N.600 E.about 50.00 chs.to point of mountain,
		thence S.30° E.; and S.60° W.about 4.00 chs; N.about
		4.00 chs., W. about 8.00 chs. to top of ridge at head of
	;	"Twist", thence N.300 W.about I5.00 chs., with branches
		running N.E. and N. to the main road from Saint
		George to Salt Lake City.
	54.00	S.foot of mountain and foot of descent about 25 ft.
	,	below the I/4 sec.cor., bears N.E. and S.W.; thence

	Chains.	ascend abruptly on steep S.E.slope of main ridge or
	*	mountain range.
	62.00	Top of sandstone mountain about I50 ft.above the
	•	foot, bears N.400 E. and S.400 W. Mountain peak about
1		35 ft.above the top of ridge bears W.about I.00 ch.
-	•	Remains. of old mineral locations on top of this
tower to the contract		mountain and on N.slope.; descend abruptly over
		abrupt and broken ledges on N.W.slope of mountain.
	80.00	Foot of mountain about 175 ft.below the top, bears
Mary Land and Market		N.E. and S.W.
- photographic		Set a red sandstone 24x8x8 ins., I8 ins.in the ground
G-EN-LANGER-MARKS		for cor.of secs.7,8,17 and 18, marked with 4 notches
-		on S.and 5 notches on E.edges; and raised a mound of
-) 1	stone, 2 ft.base, I 1/2 ft.high, W.of cor.Pits im-
Agent may	1	practicable. Hard sandstone surface.
and of religious	;	Land mountainous and broken ridges and foot hills.
Prince of princes		Soil, soil sandy, clay, gypsum, gravelly and stony; 3rd.
•	and the state of t	and 4th.rate.
3 1		No timber. Scattering grearewood, oose&cactus under-
1	**************************************	Mountainous land on 80.00 chs.
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	To a second seco	
	my as a	N.89° 43' E.on a random line bet.secs.8 and 17.
	40.00	Set temp.I/4 sec.cor.
	79.58	Intersect H.and S.line 7 lks.H.of cor.of secs.8,9,
	And the second	16 and 17.
	,	Thence I run
		S.890 46' W.on a true line, bet. secs.8 and I7.
		Descend over clay, gravelly foot hills; through scat-
	Mathematical Control of Control o	tering greasewood and iron wood undergrowth.
	1	Nime stone reef about 25 ft.high, and 3.00 chs.wide,
	· ·	bears N.30° E.and S.30° W.
	14.60	Road from Washington to Berry spring and Virgin City
		about 75 ft.below the sec.cor., bears S.300 W.and N.
	1	

bears II.400 E.and S.400 W.; ascend.

Foot of broken clay gypsum foot hills and ridges,

Wash IO ft.wide and 6 ft.deep, drains S.200 W. Foot of descent about IOO ft.below the sec.cor.,

300 E.

I8.40

20.00

67.00

70.70

1/6-15

Chains. bears N.400 E.and S.400 W.; thence ascend over foot hills and ridges with drainage generally S.and S.W. toward. the river bottom.

Set a gray sandstone 30xI0x4 ins.,23 ins.in the 39.79 ground, for I/4 sec.cor., marked I/4 on M.face; dug pits I8xI8xI2 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.

high, N. of cor. .

This cor.is on clay-gypsum foot hills about 100 ft. above the sec.cor. S.E.foot of mountain about I50 ft.above the sec.cor. bears N.30° E.and S.300 W.leave clay gypsum foot

50.00 hills and ascend abruptly on S.E.slope of mountain. Top of sandstone mountain about I25 ft.above the 60.75 last I/4 sec.cor., bears N.300 E.and S.300 W.; descend abruptly over N.W.slope of mountain.

Indications of minerals along the N.W.slope of this range. Foot of descent on N.W.slope of mountain, about 75 ft.below top of mountain, bears II.and S.; thence ascend

Top of spur of ridge about 40 ft.above the foot of

spur, bears N. and S.; descend abruptly over N.W. slope of ridge and spur. The cor.of secs.7,8,17 and 18. About I50 ft.below 79.58 top of main ridge.

E.slope of spur of mountain.

Land, mountainous , broken ridges and foot hills. Soil, clay, gypsum, gravelly and stony; 2nd and 4th rate.

No timber. Hountainous land on 79.58 chs.

June 14,1899:At this cor.of secs.7,8,17 and 18,1 set off 230 I8' N.on the decl.arc; and, at I2h M., l.m.t., observe the sun on the meridian; the resulting lat.is 370 IO' N. 1

	, John Timett.
Chains	From the cor.of secs.7,8,17 and 18,1 run
	West on a true line bet.secs.7 and 18.
,	Descend gradually over clay, gravelly and sandy foot
	hills, sloping W. and N.W.; through scattering grease- wood and iron wood undergrowth.
1.85	i .
	Road from Salt Lake City to Berry spring&Virgin City
	"up the Virgin" and river bottom farms and Washing-
	ton "down the Virgin", at foot of foot hills, bears N.
11.00	Wash about 10 ft wide and 5 st days a second
	Wash about IO ft.wide and 5 ft.deep, drains 5.200 W.
•	winding along the foot hills, and enters deep chasm
	at about 15.00 chs. N.of the closing cor.of secs.18
	and I9 on the W.bdy.of the Tp.Leave clay gravelly
18.00	soil and enter rich sandy soil.
10.00	Road from St. George to Salt Lake City bears 5.250 W.
	and N.250 E. This road begins to ascend volcanic
•	mountain on dug-way at about 4.00 chs.dist, S.250 W.;
	where the Berry Sprin and Virgin City "Twist"road
70 FA	enters the main road.
18.50	S.E.foot of volcanic mountain, about 25 ft.below the
	sec.cor., bears N.300 E.and S.300 W.; ascend abruptly
	on S.F. slope of volcanic mountain over boulders and
ar 76	stony ground; leave sandy soil.
35,18	10p of voicanic ridge known as the Washington Aidge,
	about 125 ft.high, bears N.300 E.and S.300 W.; descend
	gradually over top of ridge or mountain.
35.93	Telegraph line from Salt Lake City to St.George,
	bears N.600 E. and S.600 W.
	Set a volcanic or lava stone I8xI0x8 ins., I2 ins.in
•	the ground, for I/4 sec.cor., marked I/4 on N.face; and
	raised a mound of stone, 2 ft.base, I I/2 ft.high, II.
	of cor. Pits impracticable on account of volcanic
	stone.
55.25	Top of volcanic ledges W.side of the Washington blak
-	Ridge , about 50 ft.below where the line strikes
	the ridge on the E.side, bears N.E.and S.200 W.;
1	thence descend abruptly over broken ledges and large
	volcanic boulders on W.slope of ridge.
60.00	Leave boulders and ledges about 50 ft.below the top
	of ridge and descend more gradually over volcanic

stone.

LOU

July Miles

Subdivisions of T.42 S., R.14 W.-Continued.

Chains. Leave volcanic stone and enter sandy and gravelly 67.00 ground, bears H. and S. 71.00 Leave sandy gravelly soil and re-enter volcanic stone bears N. and S. Wash at W.foot of volcanic ridge about I50 ft.below 73.95 top of ridge or mountain, about IO ft. wide and 6 ft. deep, drains S.10° E.about I.00 ch.; thence S.200 W.; thence over broken sandridges in deep hollow. Wash about I5 ft.wide and 6 ft.deep drains S. 76.00 Wash in bottom of hollow about 20 ft. wide and 6 ft. 80.IO deep, drains S.300 E.and joins wash last named at a distance of about 6.00 chs.Scattering willows along the banks of the wash. East foot of sandridge in bottom of hollow, about I50 80.40 ft.below the Washington black ridge, bears N. and S. Leave stony ground; enter rich sandy soil bears N.&S. Ascend E.slope of sandridge. Top of sandridge about 50 ft.above the bottom of 83.00 hollow bears N.and S.; thence over level top of sandridges. Intersect W.bdy.of the Tp.at 5.10 chs. N.00 12' W. 86.58 from the old cor.of secs.7,12,13 and 18, heretöfore described in notes of re-survey of the W.bdy of the "B" Tp.Sec Book Set a lava stone stone I6x8x6 ins., I2 ins.in the ground, for closing cor.of secs.7 and 18, marked C.C.on E.face; with 4 grooves on S.and 2 grooves on N.faces; dug pits 24x18x12 ins.crosswise on each line M.and S.of stone 3 ft.dist, and E.of stone 7 ft.dist; and raised a mound of earth 4 ft.base, 2 ft.high, E. of cor. I re-marked the old cor.of secs.7,12,13 and 18 for cor.of secs.12 and 13 T.42 S.R.15 W. only. hand broken foot holls and ridges, rolling narrow . valley and mountainous. Soil, sandy and gravelly, stony, and rich sandy soil;

No timber.

3rd.4th.and 2nd.rate.

Mountainous land on 70.00 chs.

, ,	Subdivisions of T.42 S., R.14 WContinued.	
Chains.	June I4,1899:At 4h p/m.,l.m.t.,I set off 370 10' N.on the lat.arc;230 19' N.on the decl.arc;	
	and determine with the solar a true meridian at the cor.of secs.7,8,17 and 18. Thence I run	
	N.00 4' E.bet.secs. 7 and 8.	
•	Descend on N.W.slope of foot hills; over stony ground	
	through scattering iron wood, greasewood and-oose.	
2.20	Road at foot of foot hills bears S.300 W; and N.300	
	E.intersecting the main road from St.George to Salt	
	Lake City at about 60.00 chs.dist.	
5,00	Enter rich sandy, gravelly soil bears N.300 E.and S.	
9.00	30° W.; leave stony grouhd.	
9-00	Foot of descent about 40 ft.below the scc.cor., bears	
I4.55	N.30° E.and S.30° W.; ascend gradually.	
14,00	Road from St.George to Salt Lake City bears S.400 W.and N.400 E.	
17.55	E.bank of wash about 60 ft.wide and 8 ft.deep,	
	drains S.IOO W.	
17.70	Telegraph line from St.George to Salt Lake City,	
	bears N.300 E.and S.300 W.	
I8.70	first On West bank of wash bears N.100 E.and S.100 W.	
19.15	Second /Wash 20 ft.wide and 6 ft.deep,drains S.IOO W.and	,,
	joins last named wash at about 40 lks.dist.	
23.25	On S.bank of 3rd.wash about 40 ft.wide and 6 ft.	
	deep, drains S. 100 E. and joins 2nd. wash at about 50	
	lks.dist.; thence along the bottom of wash.	
25.80	N.bank of 3rd.wash, about 6 ft.high bears H.200 E.and	
.	S.200 W.; leave wash	,
28.25	Branch road from St.George to Salt Lake City, bears	
	N.409 E.; and S.400 W. about I.00 ch., thence S.200	
	W.and joins main road at about I5.00 chs.dist.	
40.00	Set a gray sandstone 24x12x4 ins.,18 ins.in the	
	ground, for I/4 sec.cor., marked I/4 on W.face; dug	
-	pits I8xI8xI2 ins., N. and S. of stone 3 ft.dist.; and raised a mound of earth 3 I/2 ft.base, I I/2 ft.high,	
	W.of cor. Wash is about 50 lks.E.of. cor., which	<u> </u>
	drains S.450 E.about 5.00 chs., thence S. and South-	
	westerly.	
	"" " " " " " " " " " " " " " " " " " "	

This cor.is about 25 ft.above the sec.cor.in rolling sand hills.

DUUN ALCOK.

Subdivisions of T.42 S., R.14 W.-Continued.

Chains. 43.00 | Re-enter wash on S.bank about 40 ft.wide and 4 ft. deep at this point, drains \$.300 E.; thence along bottom of wash. 46.60 Leave wash to the right, drains S.IOO W. 54.00 Begin descent on N. slope of sandridge at about 50 ft.above the I/4.sec.cor. Re-enter wash on S.bank at foot of sandridge, about 55.70 25 ft.below top of sandridge, about 30 ft. wide and 6 ft.deep at this point, drains S.300 E.5.00 chs.; thence S.IOO. E. and S.westerly.; thence along the bottom of wash. Leave wash to left and gradually ascend on S.E.slope of sandridge; leave sandy gravelly soil and enter . sandy sstony ground. 66.00 S.E.cor.of Alowis Bauer's field in his Desert Land Entry, W. side of wash, bears W. about 2.50 chs.. Trail bears N.300 E.and S.300 W. 7I.50 N.E.cor.of Alowis Bauer's field of about 10 acres, 75.00 on W.side of wash bears W. about 4.00 chs. Reservoir and flume on N.side of field. 75.60 Intersect the S.line of sec.5,9.00 chs. S.890 39' E. of the old cor.of secs.5,6,7 and 8, which is a sandstone of red quality I4x12x4 ins., partly broken, marked and witnessed as described by the Surveyor. General. I replace the old cor. with an iron stone I5xI0x6 insiset IO ins.in the ground .marked for secs.5 and 6 only;dug pits 24x24x12cins.,in.each.;. sec.,6 ft.dist.; and raised a mound of earth,4 ft. . . base, 2 ft.high W.of cor. At the point of intersection on the S.bdy.of. sec.5, set a gray sandstone 26x8x6 ins., 20 ins.in the ground for closing cor.of secs.7 and 8, marked C.C.on S.; with 5 groovess on S. and E.faces; dug: pits 24x18x12 ins.crosswise on each line E.and W., 3 ift., and S. of stone 7 ft.dist.; and raised a mound of earth 4 ft.base, 2 ft.high S.of cor. This cor.is on sandridge sloping S.W., about, 100 ft. above the last I/4 sec.cor.

The old cor.of secs.5,6,7 and 8 is the N.W.cor.and beginning cor.of the survey of Alowis Bauer's Desert

Chains. land claim No.4452, reported by the Surveyor General as W.I/2 of N.W.I/4 of Sec.8.

Alowis Bauer's house near a small spring in sec.5, bears N.20° E.about 20.00 chs.dist.An irrigation ditch averaging about 2 ft.wide and 2 ft.deep,extends from spring South Westerly to the head of reservoir on N.side of his Desert Land Claim.He has a farm and pasture enclosed with picket and wire fence in W.I/2 of S.W.I/4 of sec.5,embracing about 25 acres.

Land, broken foot hills and ridges and rolling. Soil, stony and gravelly and rich sand; 4th., 3rd., and 2nd.rate.

No timber.

Undergrowth and vegetation, greasewood, iron wood, oose, cactus, native grasses and shrubbery.

Mountainous land on 2I.00 chs.

June 14,1899.

Mayhew Ho Dalley U.S. Deputy Surveyor DOUR FRENCH TA

Meanders of the left bank of the Rio Virgin, down stream.

Before commencing the Meanders of this Tp., I return to the meridian established May 23,1899, from Polaris, at the cor. of Tps. 42 and 43 S., Rs. 13 and 14 W., and described in the notes.of the S.bdy.of T.42 , and test the ad-S., R. 14 W., Book "A",

justments of my instrument as follows: June 16,1899:At 7h a.m., l.m.t., I set off 370 7' N.

on the lat.arc; 230 23' N.on the decl.arc; and test the adjustments of my solar, finding that it gives

the same meridian as before and adjustments cor-

rect. I commence at the point for the meander cor.of

fractional secs.l and 36 on the N.bdy.of the Tp., 30 lks.S.890 57' E.of the point for the cor.of secs. 1,2,35 and 36, in the river, and 25 lks.N.890 57' W.

of the witness cor.for this meander cor., which / I established May 27, 1899, for description of which see "B." Book

off 370 12' 10" N.on the lat.arc; 230 22' 30" N.on the decl.arc; and determine a true meridian with the solar . of 8hoomam . Int. Themce I run with meanders in sec.l.

At this point for Meander Corner, June 16,1899:I set

Through dense willow and rabbit brush undergrowth; over nearly level ground; in rich sandy, and stony soil.

S.IO I/4 OF. 4.70 chs. On sloping bank about 8 ft. high.At I.I4 chs.fence W.side Levi T. Jessup's farm, bears N.

100 W.and S.100 E. S.20 I/40 E. 7.50 Sloping bank about 8 ft.high.

S. 7 I/20 E. 4.30 Sloping bank I2 ft.high. S.25 I/20 W. 2.80 Line runs along foot of grav-

elly ridge about 40 ft.high. Bank about 20 ft.high.At 0.80

enter springs along the river bank and continues to end of course. River confined in a narrow channel sets strong

Meanders, T. 42 S., R. 14 W.-Continued.

Meanders of the left bank of the Rio Virgin.down stream.

against the E.bank.

S.420 W. 3.50 chs. At 0.15 ch.stream pure fresh

water, about 2 ins.wide, 2 ins.

deep, rises about 2.00 chs.E. and runs W.into river.At 0.80

ch.stream pure fresh water,

about 2 ins.wide and 2 ins.

deep, runs W.into river.At I.50

chs.stream pure fresh water

about 2 ins.wide and 1 in.

deep runs W.into river.Leave

foot of ridges bears S.450W. Bank about I5 ft.high.

To meander cor.fractl.secs.

1 and 2.Bank about I5 ft.high.

Land level and broken.

Soil, rich sandy and gravelly, and stony; 2nd.3rd.and

4th.rate.

No timber except a few scattering cottonwoods.

Dense willow and rabbit brush undergrowth on 23.80 chs.

Mountainous land on 7.80 chs.

Thence in sec.2.

S.65 0 W. I.00 "

Through dense willow undergrowth; over nearly level ground; in sandy gravelly and stony ground with indications of alkali.

S.720 W. I2.00 chs. Sloping bank 6 ft.high.At 9.00 chs.leave dense willow under-

growth and enter scattering

willows and weeds, bears N.&S. S.86 I/20 W. 4.50 " Bank average about 6 ft.high.

N.84 I/20 W. 2.10 " Sloping bank about 8 ft.high.

5.72 I/20 W. 2.30 " Bank about 8 ft.high.,

S.70 O.W. 9.10 "

N.62 I/40 W. 5.30. " At end of course line crosses

foot of volcanic ledges; leave

willows and weeds. Bank gradu-

Meanders, T. 42 S. R. 14 W. - Continued.

Meanders of the left bank of the Rio Virgin, down stream.

ally slopes to edge of water H.about 4.00, chs.dist.

N.73 I/20 W. 1.40 chs, At end of course leave foot of volcanic ledges bears S.W.

At 0.98 ch.road ffom Berry S..74 I/20 W.. 1.20 Spring and Virgin City to Washington at foot of volcanic bench, ascend S.I50 E.to

top of bench, and bears H. 400 E.across river about 5.00 chs. and thence N.W.

S.59 I/2 0 W.4.50 Top of sand bank E.side of river about 8 ft.high. At end of course foot of per-S. 30 E. 2.90 pendicular volcanic ledges, about 50 ft.high.Bank of river

stony beach. S.170 W. 3.40 chs. S.39 I/40 W. 3.40 Scattering brush and weeds along this course.

S.37 I/20 W. 5.50 S.42 I/20 W.10.00 S.46 I/20 W.II.00 At 9.30 chs.trail ascends bank from river 5.200 W.At end of course leave foot of ledges bears S.200 W. and enter dense

S.39 I/20 W. 4.40 S.20 I/2° W. 5.60

 $5.28 \ 3/4^{\circ} \ W. \ 2.30$

S.60 W.

2.90 At 2.00 chs.cottonwood tree 6 ins.diameter on the line. Enter solld stone beach and

willow undergrowth.

leave dense willows, bears S. 200 W.and N.200 E. At end of course enter foot of

about 6 ft.high.Thence along foot of volcanic ledges on

perpendicular ledges bears S.

300 W., thence along steep foot of ledges, about IO ft. above the water.

Meanders, T.42 S., R.14 W.-Continued.

Meanders of the left bank of the Rio Virgin, down stream,

S.30 I/20 W. 5.80Chs. To meander cor.fractl.secs.

2 and 11. The river sets strong-

ly against the stony bank the

entire course. Land along foot of ledges broken and stony; in river

bottom rich sandy, gravelly soil nearly level with indications of alkali; 4th. and 2nd. rate.

No timber except lone cottonwood.

Dense willow undergrowth on 21.00 chs.

Mountainous land on 43.70 chs.

Thence in sec.11.

June 16,1899:At the meander cor.of fractl.secs.2 and 11,I set off 230 23' N.on the decl.arc; and, at

12h M., l.m.t., observe the sun on the meridian; the resulting lat.is 37011' . II.

Along sandy and stony beach at foot of ledges. S.39 I/40 W. 9.10 chs. Sandstone beach about 8 ft.

high.Current sets strong

against the stony bank. At 6.00 chs.small spring drains W.into river.

S.38 I/40 W. 4.60 chs. At 0.50 ch.enter dense rabbit brush undergrowth, bears S.W.

and N.E.; leave foot of ledges bears S.W.

S.20 I/20 W. 5.40 To meander cor.fractl.secs.IO' and ll;on sandy beach, stil in dense rabbit brush.

11.10 Land broken along foot of ledges; nearly level in

river bottom.

Soil, stony along foot of ledges, and rich sandy soil in the river bottom; 4th. and 2nd. rate.

No timber.

Dense undergrowth on 9.50 chs.

Mountainous land on 9.60 chs.

Meanders, T. 42 S., R. 14 W.-Continued.

Meanders of left bank of Rio Virgin, down stream.

From the meander cor.of fractional secs. IO and 11. I run with meanders in sec. 10. Over broken sandy and stony ground; through dense rabbit brush and willow undergrowth. On sloping bank about 6 ft.high. S. 270 W. 1.70 chs.

S.32 I/40 W. 7.40 "

S.45 I/20 W. 6.10.

S.49 3/40 W. 6.80 "

low and rabbit brush undergrowth, bears N.E. and S.W.; and enter foot of almost perpendicular ledges. At 5.40 enter dense willow and rabbit brush undergrowth, bears E. and

On stony bank 6 ft.high. S.33 I/4° W. 7.80 At 1.61 under projecting ledges

stony bank.

about 60 ft.high.The line continues along a narrow shelf of solid ledges, about 20 ft.high,

W.At end of course leave dense undergrowth bears N.and S.

At 0.40 ch.leave dense wil-

. Still on ledges-current strong against the bank.

.scattering cottonwoods.Line

with current strong against

At 0.55 ch.leave ledges bears . S.450 W.; enter sandy beach and

continues along narrow sandy beach.At 6.IO chs.re-enter

...ledges bears S.550 W.and N.E. S.570 W.11.70 Chs. Along foot of ledges with cur-

> rent strong against stony bank. At 5.40 leave foot of ledges bears S.W.thence on sandy, and

stone fence bears N.600 E. about 1:00 ch., and S.600 W. to

gravelly beach. At end of course

top of ridge.

S.24 I/40 W. 3.40 . " At 0.40 enter dense willow and

Meanders, T.42 S., R.14 W.-Continued. Meanders of left bank of the Rio Virgin, down stream. 114 20 1 and greasewood undergrowth, bears W. and S. S.4 I/40 E. 2.70 Chs. On caving bank about 15 ft. high, and W. side of old farm in river bottom. S.22 I/40 W. 3.00 chs. At beginning of course leave dense willows and greasewood bears N.E.and S.W. At 0.40 ch. enter dense willow S.480 W. 2.40 undergrowth bears N.and S.At I.10 chs. leave dense willow undergrowth at foot of ledges' bears H. and S.; thence along the ledges on bank about 5 ft. high, with current strong against the stony bank. S.340 W. 10.50 " At 0.70 ch.enter dense willow undergrowth bears 5.300 W.and' H.300 F.and leave ledges bears S.300 W. At 4.90 chs.leave dense willows bears H. and S. 4 enter sandstone ledges.At 5.Fb chs.enter dense willow undergrowth bears H. and S. At 8.20 leave dense willows bears H. and S.; enter wire grass flat.At 8,90 leave wire grass, bears F. and W.; enter stony bank at foot of ledges. Thence along broken sandstone reefs. At I.65 leave ledges and enter S.440 W. 8.40 dense willows in sandy river bottom bears N.and S. At 7.40 enter ledges and leave dense willows and sandy river bottom bears W.E. and S.W.

S.450 W. At 0.70 ch.enter dense willows 6.20 in sandy river bettom, bears I. and S.; thence along narrow

Meanders, T. 42 S., R. 14 W. - Continued.

Meanders of left bank of Rio Virgin, down stream.

bank at foot of ledges, about 4 ft.high, with current setting strong against the stony bank.

S.40 I/40 W. 5.10 chs. At 0.70 ch.leave dense willow undergrowth bears N. and S.

and enter dense rabbit brush undergrowth, which continues to end of course. .

To meander cor. of fractl. secs. IO and I5. Land along ridges broken, and in river bottom nearly

level. Soil, stony and sandy; 4th. and 2nd. rate.

No timber except small grove of cottonwoods. Dense undergrowth on 36.00 chs. Mountainous land on 32.00 chs.

June 16,1899.

June 17,1899:At 8h a.m., l.m.t., I set off 37010! on the lat.arc; 230 24 30 N.on the decl.arc; and determine a true meridian with the solar, at the meander cor.of fractl.secs.IO and I5.

Thence I run with meanders in Sec. I5.

S.410 W.

Through dense yellow or rabbit brush undergrowth, over sandy and stony ground. S.380 W. 7.90 chs. At 2.90 chs.enter dense wil-

low undergrowth bears N.E. and S.W.; leave yellow or rabbitbrush. S.35 3/40 W. 8.80. 6.İ0

| S.50 I/40 W. 7.IO chs. At 6.60 chs.leave dense willows bears N.E. and S.W.; enter sandstone ledges on stony bank about I5 ft.high, with

Meanders of left bank of Rio Virgin, down stream.

29,90

river current strong against the bank.

5.54 I/20 W. 9.24 chs. At 0.24 chs.leave sandstone

ledges bears S.W.; thence over

sandy beach in dense willow undergrowth to end of course.

. To the meander cor. of fractl.

secs. I5 and I6.

Land broken along foot of ledges and nearly level

in river bottom . Soil, stony and sandy; 4th. and 2nd. rate.

No timber.

Dense willow or rabbit brush undergrowth on 38.40 chs.

Thence in sec. 16.

S.27 I/20 W. 4.40

Over sandy and stony ground; through dense willow undergrowth.

S.470 55' W. 5.00 chs.

S.90 W.

I.90 " At I.80 chs.fence on N.E.end of W.W.Roundy's pasture, bears' N.100 W.and S.100 E.

S.14° E. 4.20 End of course about 50 lks.S. of E.end of Wm.W.Roundy's and

Wallace Pollock's dam in Vir-

gin River.At end of course Roundy's pasture fence bears

N.2.00 chs.and runs to begin-

ning of course.Leave dense

willows bears E.and W. Course along ledges on steep.

bank about IO ft.high, with

river current strong against stony bank.

At I.50 chs.leave volcanic IO.70 " ledges bears S.; river emerges LIC BUUK A-28

Meanders, T. 42 S., R. 14 W.-Continued

Meanders of left bank of the Rio Virgin, down stream.

from box canon and widens and spreads in bottom land. Thence over wire grass bottom, subject to over flow during floods of from 6 to IO ins. Enter dense willow undergrowth bears N. and S. Scattering cotton-woods and black willow; also mosquite or thorn wood.

On bank about 8 ft.high, sub-

dense willows bears E, and W.

s.28 I/20 W.I5.20 chs. South 3.20 "

S.250 W. 6.30 " On gravelly sandy beach. S.65 I/20 W. I.20 "

S.230 W. 2.20 "

1st.rate.

ject to overflow of about 8 ins. At end of course leave

S.19 I/40 E. 3.90 " To meander cor.of fractl.secs.

I6 and 21.

Land broken ridges and almost level river bottom.

Soil, stony on ledges, rich sandy and clay loam in river bottom with indications of alkali; 4th. 2nd. and

Timber, scattering cottonwood, black willow and mosquite or thorn wood.

Dense undergrowth on 48.40 chs. Mountainous land on 5.90 chs.

June 17,1899:At this meander cor.of fractl.secs.16 and 21,1 set off 250 24' N.on the decl.arc; and at Oh I' p.m.,l.m.t.,observe the sun on the meridian;

the resulting lat.is 370 9' .N.

Thence in sec.2I

Over sandy-clay level bottom land on wire grass flat subject to overflow of about 12 ins.

5.19 1/40 E. 5.70 chs. Bank about (2) ft; high.

Meanders, T. 42 S., R. 14 W.-Continued.

Meanders of left bank of Rio Virgin, down stream.

5.70

S.30 I/20 W. 4.10 chs. At end of course enter dense willow undergrowth bears E. and W.

S.5 I/20 E. 7.10 " At end of course on broken

At end of course on broken ridges or foot hills, bears N. 500 E.and S.500 W.; thence along broken ridges on bank from 8 to I2 ft.high, with river current strong against the bank, which is protected with dense willows, black willow and cottonwoods.

S.53 I/20 W. I.70

S.67 I/40 W. 7.00 chs. Still on sloping bank from 8 to I2 ft.high. S.450 W. 4.30 "

S.420 W.. 3.00 " At I.00 ch.leave dense undergrowth at foot of ridge, bears S.250 W., and enter stattering

willows, cotton wood and black willow, in river bottom subject to overflow of from I2 to I8 ins. To locate a sand bar I run from end of course: N.850 W. 2.50 chs. to upper end of bar.

S.35 I/20 W. 9.00 . " At end of course foot of ridges S.side of river bottom bears S.At I.75 chs.enter dense will

and S.W.

low undergrowth bears N.and \$
At end of course leave dense
willow undergrowth, bears N.E.

S.570 W. 3.30 " .

S.26 3/40 W. 9.20

N.600 W. I.70 " At end of course enter dense willow undergrowth bears E.

and W. To locate lower end of sand bar, I run N.700 E. to end of bar I.40 chs.dist.

B00K: A:282

Meanders, T. 42 S., R. 14 W. - Continued.

eanders, 1:42 0., K. I

Meanders of the left bank of the Rio Virgin, down stre-

North I.20 chs. Bank about 6 ft.high.

S.62 I/40 W. 4.20 " Bank about 5 ft.high-river runs with rapid current.

runs with rapid current.

S.46 I/40 W. 2.20 " Sloping bank about 3 ft.high.

S.700 W 7.20 " Sloping bank about 3 ft.high

S.46 1/40 W. 2.20 " Sloping bank about 3 ft.high about 75 lks.from water.

S.67 3/40 W. 2.50 " Course along sloping bank about 6 ft.high, swift

about about 6 ft.high, swift
current of river sets strong
agains the bank.

S.59°W . 5.50 " Bank about 6 ft.high, rapid
current.

S.63 I/4° W. 5.70 " On low bank about 2 ft.high,

s.63 1/40 W. 5.70 On 100 bank, about 2.13. Might, subject to overflow of from 12 to 20 ins.; leave dense will low undergrowth at end of course, bears N. and S. S.51 3/40 W. 5.10 " At end of course stone butment

running from Washington dam,

protected with growing black

willow timber, bears N.630 W.

and S.630 E.Thence along the

willows.

N.63 I/4° W. 6.50 " At 6.20 head of Washington canal on E.side; leave willows

At 6.40 chs.head of canal on W.side.The canal is about I0

ft.deep and filled with water

N.850 W. 0.40 "At end of course on butment of Washington dam.

N.71 I/40 E. 0,40. "To N.end of butment built of solid masonry, and about 20 ft.high.N/of the butment is a spill cut in solid stone.

rent of river and about 250

ft.wide.The Washington dam

from the Rio Virgin.

Meanders, T.42 S., R.14 W.-Continued.

Meanders of left bank of the Rio Virgin, down stream. on S.side of spill, about 300 ft.long, about 40 ft. wide and 20 ft.high, built by citizens of Washington County at an estimated cost of from twelve to fifteen thousand dollars. The canal running from the dam carries water to irrigate tillable and pasture land in Washington field, in Tps.42& 43 S., R. I5 W. N.340 W. . 0.60 chs. To W.end of abutment. N.76 3/40 W. I.00 To lower end of butment on sand bank about IO ft.high. N.88 3/49 W. 2.70 At end of course in river bottom on bank about 5 ft. high.Rush and willows along the course. N.670 W. I.40 " To point for meander cor.of fractional secs.20 and 2J at 9,10 chs.N.00 4' E.of the witness cor.heretofore described. Land nearly level in river bottom and broken along foot hills or ridges.

Soil, rich sandy clay and loamy, stony and gravelly;

Ist., 2nd., and 4th.rates.

Timber, scattering cotton woods, mosquite or thorn

wood, and black willow.

Dense undergrowth on 72 25 chs. Mountainous land on 21.00 chs.

by The land in the river bottom is occupied, Wm.W.Roundy and Wallace Pollock and used as a pasture.

June 17,1899.

Meanders of left bank of Rio Virgin, down stream.

June 19,1899:At 8h a.m.,l.m.t.,I set off 37° 9' N. on the lat.arc;23° 27' N. on the decl.arc;and determine a true meridian with the solar, at the point for the meander cor.of fractional secs.20 and 2I, situated N.0° 4' E. 9.10 chs.dist.from the witness cor.for this meander cor.

Thence I run with meanders in sec.20.

Over nearly level rich sandy and gravelly soil;
through dense willow undergrowth. Current of river
sets strong against the bank, as it drops from spill
N.670 W. 6.00 chs. At 3.40 chs. sluice channel,
about 50 ft. wide, and 4 ft.
deep, runs from Washington
canal and empties into river.

Course II.200 W.

11.830 E. I.10

ひししい

N.44 $3/4^{\circ}$ V. 6.70 " Course along sandy bank about 6 ft.high.

Y.76 I/40 W. 7.20 " Course along sandy bank about 4 ft.high, subject to overflow of about 6 ins.

W.82 I/2° W. 6.80

N.51 3/40 W.12.00

8.79 3/40 V. 5.10

N.70 I/2° W. 3.50 " Course along sandy shallow bank subject to overflow of from IO to 20 ins. At end of course upper end of sand bar bears N.22° W. I.20 chs.dist.

bar, bears N.280 E., 2.75 chedist. At 5.50 chs.leave dense

villows and enter scattering villows bears W. and S.

At 5.40 chs.lower end of sand

" At 3.40 coltonwood tree 36 ins diam.bears S. about IO lks.

dist.Enter dense willow under

growth bears N.and S.

on S.side of river bottom,

S.710 W. 6.00 " At 2.40 chs.sluice ditch or channel from Washington canal

Meanders, T. 42 S., R. 14 W.-Continued.

Meanders of left bank of Rio Virgin, down stream.

about 20 ft.wide and 3 ft.deep, drains N.W.into river.Leave dense undergrowth and enter scattering willows and rabbit brush.

.Charles Westover's fence on N. side of farm which bears N.300 W.

and S.300 E. is about 2.00 chs.S. of end of course.

N.55 I/40 W.16.30 chs. At I.10 chs.sluice channel running from Washington canal about I00 ft.wide and 2 ft. deep,drains N.W.into river.

At 4.00 chs.road from Wash-

tom and Virgin City, runs with course along the river bank.
At end of course on sloping bank about 8 ft.high.

ington to farms in river bot-

Sloping bank about 6 ft.high subject to overflow of from I to 2 ft. At IO.33 enter

N.and S. At 2.80 chs.leave road bears

dense willow undergrowth bears

To meander cor.fractl.secs.

19 and 20, which could not be set, situated N.00 4' E.22.30

W. and crosses river.

chs.dist. from the witness cor.established on S.side of river bottom.

Land nearly level river bottom.

N.84 I/40 W.15.70' "

S.55 3/40 W. 4.80

160

Soil, sandy, gravelly, clay and sandy and clay loam; 2nd.3rd.and Ist.rate.

No timber except scattering cottonwoods. Dense undergrowth on 50.47 chs.

June 19,1899:At this point for meander cor.of fractl secs.19 and 20,1 set off 230 27' N.on the decl. arc; and, at Oh Im p.m., l.m.t., observe the sun on the

BOOK A 2 2 154 Meanders, T. 42 S., R. I4 W :- Continued. Meanders of left bank of the Rio Virgin, down stream. meridian; the resulting lat.is 370 9! N. Thence in sec. 19.

Over nearly level sandy, gravelly beach; through dense willow undergrowth. S.55 $3/4^{\circ}$ W.IO.IO chs. At 4.70 chs.sluice channel, about I5 ft.wide and 2 ft. deep, runs from Washington canal, N. Westerly and enters river.At 8.10 sluice channel about 50 ft.wide and 3 ft. deep, runs from Washington ... canal and drains N.W.to river. End of course on sloping bank about 5 ft.high, 40 lks.from bed of river. N. side of Chas. Westover's field bears S. about 5.00 chs.dist. S.79 I/20 W. 7.00 S.66 I/2 W.I3.40 " At 6.38 road from Westover's farm to residence, bears S. about I.00 and enters field.

'At 9.00 chs.fence at foot of. bank about 8 ft.high, bears N. E.and S.W. and enter field. At II.IO chs.top.of.8 ft.bank inside of field.Current of river sets strong against the bank, which is gradually wearing; away. Leave dense willows bears N.and S. N.61 1/20 W. 4.80 At 0.30 ch.leave field and

fence bears E.and W.; enter sandy gravelly bed of sluice. channel.At end of course leave . sluice channel, bears N.W. dand

Meanders, T. 42 S., R. 14 W.-Continued.

Meanders of left bank of Rio Virgin, down stream. アリップ enter dense willow undergrowth and sandy gravelly soil bears N.W.and S.E. N.40 $I/2^{\circ}$ W.10.20 chs. On bank about 20 ft.high with river current strong against At 10.00 chs. the bank Leave dense willows and enter scattering willows& cottonwoods bears E.and W. N.50 W. 5.80 . At 5.20 road on shallow bank at foot of high bank bears W. about 2.75 chs.to Westover's houses, and E. Subject to overflow of from I to 2 ft. N.26 I/40 W. 9.10 At 0.20 ch.enter dense willow undergrowth bears N.and S. $N.40 I/2^{\circ} W. 9.70$ N.65 I/20 W. 4.90 At 0.16 ch.Road from Washington to Berry Spring and Virgin City, bears E. and S.77 I/40 W. 28.00 " At IO.80 chs.on 6 ft.bank, sloping gradually about 2.50 chs. to edge of water at low water mark.At I8.70 chs.on steep sandy bank about IO ft. high. Enter dense greasewood bears N.and S.; continue in dense willows. At 25.90 chs. road from Washington to Virgin City bears S.770 W.and N.600E. At 26.15 chs.leave road bears S.700 W.At end of course on sloping bank about 3 ft.high subject to overflow of about 6 to 8 ins. At I.25 chs.road from Washing S.510 W. 6.90 ton to Virgin City bears 5.70

98.900

W. and M. 70°E.
At a. At 8:90 chs. Intersect
W.bdy.of the Tp.at the point

for meander cor. of fractl.

Meanders, T.42 S., R. I4 W.-Continued.

Meanders of left bank of the Rio Virgin, down stream.

secs. 19 and 24, heretofore described in notes of retracement of W.bdy. of T. 42 S., R. 14

Land nearly level, slightly broken and rolling.
Soil, sandy, gravelly, and rich sandy and clay loam;
with traces of alkali; 3rd. and 2nd. rate.

Timber, scattering cottonwood, black willow and ash. Dense undergrowth on 98.90 chs.

Land in river bottom occupied by Charles Westover for pasturage, farming and gardening.

June _19,1899.

MEANDERS OF THE RIGHT BANK OF THE RIO VIRGIN, UP STREAM.

June 20, I899: At 8h a.m., l.m.t., I set off 370 9'
N.on the lat.arc; 230 28' " N.on the decl.arc;

and determine a true meridian with the solar at the meander corner of fractional secs. I9 and 24, on the N. babk of the Rio Virgin, at 64.00 chs dist., N. 0.0

40' W. from the cor.of secs.24 and 25, T.42 S., R.I5 W. and described in notes of retracement of W.bdy.of T.42 S., R.I4 W., Book β

Thence I run with Meanders in sec. 19.

Over broken ridges at foot of high sandstone mountain; in sandy, stony gravelly soil; through dense greasewood and willow undergrowth.

N.77025' E. 2.20 chs. Course along broken bank from

8 to I5 ft.high, with current of river strong against the bank.

X.590 E. 9.00 " Course along broken bank from 8 to I2 ft.high-current strong

against the bank.

N.64 I/20 E.I5.00 " Course along broken caving

Meanders, T. 42 S., R. 14 W.-Continued.

Meanders of the right bank of the Rio Virgin, up stream. bank, about I2 ft.high, with current strong against the bank N. 88 3/4°E. 8.00 chs. ... S. 53°E. . 9. 50. 28. Course along caving bank about I2 ft.high.At end of course leave broken ridges and foot hills bears N.400 E.; thence over rolling and nearly level river bottom. . S.50 $I/4^{\circ}$ E.10.30 chs. At 2.90 chs.road from Washington to Berry Spring and Virgin City bears 5.700 W.and N.700 E. Road enters river at about 25 lks.dist., S.700 W. Course along straight bank diminishing from I2 ft.to about 6 ft.high. S.380 E. 5.70 . " Course along gradually sloping bank about 5 ft.high. At 0.70 chs.leave dense under growth and enter scattering willows and cottonwoods bears H.and S. S.11 I/40 E. 5.10 At 0.10 ch.enter dense willow undergrowth bears N. and S. leave scattering willows. S.3I I/40 E.I3.90 " · Course along sloping bank about 3 to 4 ft.high, subject to overflow of about 8 to I2 ins. At end of course leave dense and enter scattering willows bears E.and W. N.73 3/4° E.23.30 Course along sandy gravelly beach subject to overflow of

from I2 to 24 ins.

At end of course enter dense willow undergrowth bears N.and S.; leave scattering willows.

Enter foot of bench bear N.

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Meanders, T. 42 S., R. 14 W. - Continued.

Meanders of right bank of Rio Virgin, up stream.

N.600 E. and N.300 W.; thence

N.610 E. 5.90 " To the meander cor.of fracti.

secs.19 and 20, heretofore described in notes of subdivision

scribed in notes of subdivisions

Soil, sandy and stony, sandy and gravelly, and loamy;
4th., 3rd. and 2nd. rate.

Timber, scattering cottonwoods and very few black willow.

Dense undergrowth on 79.50 chs.

Mountainous land on 35.70 chs.

Land in river bottom in East half of section mostly

occupied by George Prince for pasturage and farming purposes.

June. 20,1899:At this meander cor.of fractl.secs.

June. 20, I899: At this meander cor. of Fracti. secs.

I9 and 20 on N. bank of the Rio Virgin, I set off 230

27' N. on the decl.arc; and, at 0.h Im p.m., l.m.t.,

Observe the sun on the meridian; the resulting lat is 3709' 10" N.

Meanders, T.42 S., R.14 W.-Continued.

Meanders of right bank of Rio Virgin, up stream.

June 20,1899: At the Meander cor.of secs.19 and 20 on the N.bank of the Rio Virgin, I set off 370 9' IO" N.on the lat.arc; 230 27' N.on the decl.arc; and at 2h p.m., l.m.t., determine a true meridian with the solar.

Thence I run with meanders in sec.20.

Along sandy, gravelly broken foot of bench; through dense willow undergrowth.

N.70 I/2° E. 6.70 chs. At 3.00 chs.leave dense willows and enter scattering willows bears N.and S. At 3.05 chs.road from Washington to river farms and Virgin City, bears S.750 W.and N.71° E.; thence along the road. At end of course leave foot of bench bears N.650 E.; thence along almost level river bottom. Enter dense willow undergrowth bears N.and S.; leave scattering willows. Course

N.88 I/20 E. 4.10 " Course along sloping bank averaging about 3 ft.high, subject to overflow of from 8 to I2 ind.

along sloping bank average

about & ft.high.

S.72 3/40 E. 9.30 " Course along steep bank about 3 ft.high, subject to overflow of from IO to 20 ins.

N.6I 1/40 E. 5.90 " At 0.45 ch.road bears N.65° w. and S.65° E.Course along steep bank about 2 ft.high, subject to overflow of from I2 to 20 ins.At end of course lower end of bar bears S.38 I/20 E.3.60 chs.dist.

N.24 I/2° E. 2.10 " At I.80 chs.wire fence S.side of Ormond Wilkin's field and

sander by 1. ab buy (1.1)

Meanders of right bank of the Rio Virgin, up stream.

fasture, bears N.300 E.and N.
700 W.; enter field and leave
dense willows.

S.84 I/20 E. 4.40 cms. At I.85 cms.wire fence S.side

of field and pasture bears

E.and W.; leave field.At 3.90

chs. S.E.cor.of Ormond Wilkins field and pasture hears N. about 30 lks.At end of course in lane bet.Wilkin's E.and W.

fields and pastures.

S.52 I/20 E. 8.10 " At 0.90 S.W.cor.of ormond Wil-kin's field(East Enclosure),

bears N.E.and S.600 E.At 2.95

chs. Road bears S.60° E.and N.
60° W. At 4.20 chs. S.E.cor.of
E.field and pasture bears N.
about 2.00 chs.Enter dense wil-

lows and rabbit brush bears N. and S.; also scattering cot-

tonwoods and black willow.

Course along sloping bank of from 3 to 8 ft.high.

At end of course upper end of sand bar bears S.I50 W. 4.00 chs.dist.

Course along sloping bank

about 2 ft.high, subject to overflow of about I2 to I8 ins.
At end of course leave dense

rabbit brush bears E.and W.; continued in dense willows. S.78 $I/2^{\circ}$ E. 6.90 chs. Course along sloping bank

about 3 ft.high, subject to overflow of from I2 to 24 ins. S.69 $I/2^{\circ}$ E. 3.00 " Course along steep bank from 3

S.760 E.

 $5.42 \text{ I}/4^{\circ} \text{ E. 2.90}$

7.20

to 5 ft.high subject to overflow of from 6 to I2 ins.

Meanders, T. 42 S., R. 14 W. - Continued.

Meanders of right bank of the Rio Virgin, up stream.

S.55 I/20 E. 3.90 chs. Course along sloping bank about 5 ft.high.

S.80 3/40 E. 5.70

Ē.

N.80 3/40 E. 2.40 " At end of course on foot of bench bears N.200 W.and N.800 E.; irrigation ditch bears N.

about 25 lks.;enter dense

greasewood and rabbit brush

bears W.and S.-continue in dense willows.

N.87 3/40 E. 6.00 " Course along broken foot of bench-bank about 5 to 8 ft. high.

S.65 I/40 E. 5.40 Course along irrigation ditch on

broken river bank about IO ft.
high. End of course about 3 ft.
S.of irrigation ditch.

3.31° E. I.70 chs. Course along steep bank averaging about IO ft.high.At end

of course irrigation ditch bears N.about IOO lks.

of fractl.secs.20 and 21, on N. bank of the Rio Virgin, at 30.40 chs.dist, N.00 4' E. from the

To point for the Meander cor.

cor.of secs.20,21,28 and 29. See notes of subdivisions of

this Tp., Book C,

Soil in river bottom, sandy and gravelly, and loamy; 2nd. and Ist.rate; along broken foot of bench sandy, gravelly and stony; 3rd. and 4th.rate.

Timber, scattering cottonwood and black willow.

Dense undergrowth on 78.24 chs.

2.64

June 20,1899.

17.7 d

19.24

Meanders, T.42 S,, R.14 W.-Continued.

Meanders of the right bank of the Rio Virgin, up stream. June 21,1899:At the Meander corner of fractl.secs. 20 and 21 on the N.bank of the Rio Virgin situated N.00 4'Wfrom the cor.of secs.20,21,28 and 29,30.40 chs.dist., I set off 370 9'. H.on the lat.arc;23028' N.on the decl.arc; and, at 8h a.m., l.m.t., determine a true meridian with the solar. Thence I run with meanders in sec.21. Along broken foot of bench and foot hills; through greasewood and willow undergrowth; in gravelly sandy stony ground at foot of bench, and sandy-loamy soil in river bottom. S.56 I/20 E. 4.50 chs. Course along steep bank about 8 to 12 ft.high.At end of course leave willows greasewood. At 0.80 ch. Ormand Wilkin's 5.63° E. 5.00 and George Prince's irrigation ditch or canal, about 6 ft.wide and 4 ft.deep filled with water from the Rio Virgin drains N.650 W. and follows the course of the Rio Virgin.At 3.05 chs.wagon road that crosses spill and dam bears N.200 E.and joins main · road at about 3.00 chs.; and S.200 W. At end of course on side of spill of Washington dam, about 30 lks.N.of head of irrigation ditch or canal. $N.44 I/2^{\circ} E. I.60$ Course along point of dam. At end of course Wallace Pollock's pasture fence bears N. E.ahout 50 lks.; Pollock's house bears N.22 3/4° E. 8.00 chs.dist.; corrall, stables etc. E.of house at foot of sand-

> stone mountain. Thence along river bottom, on S.W.line. of

Pollock's pasture.

Meanders, T.42 S., R.14 W.-Continued.

Meanders of right bank of the Rio Virgin, up stream. S.82 I/20 E. 8.80 chs. Course along swampy river bottom, through thich rushes. End of course about 25 lks.S. of Pollock's pasture fence. N.58. $1/2^{\circ}$ E. 5.10 At: 0.80 chapasture fence bears S.850 E. about 60 lks.to cor. and H.850 W. ; enter pasture. At 2.50 chs. fence bears N. 500 E.and S.500 W.; leave pasture.At 3.65 chs.middle of road from Pollock's residence to spring on S.side of river bottom bears N.300 W.and S. 300 E. Gate opening into lane . bet.pasture on W.and field or farm on E., bears N.300 W. about 35, lks.dist.End. of course about 70 lks.S.of. field fence. Enter dense willow undergrowth bears N. and S. 11.46° E. 7.70 End of course on sloping bank about 5 ft.high, and about 2.00 chs.S.of field fence. 11.24 3/40 E. 4.20 From end of course lower end of sand bar bears N.490 E. about I.00 chs.dist. H.190 E. Course along bank about 3 ft. 2.10 high, subject to overflow of from 6 to I2 ins. N.46 3/40 E. I.60 At end of course upper end of sand har bears 5.300 E.about 75 lks.dist. N.29 I/20 E. I.70 $N.57 \ 3/4^{\circ} E. \ 2.40$ H.34 3/49 E. 2.50 11.39 I/20 E. I.90

N.170 E.

N.2 I/20 W. I.20

2.80

Meanders, T.42 S., R. I4 W.-Continued.

Meanders of right bank of the Rio Virgin, up stream.

DUUR MEORING

N.3° W. 3.20

N.7 I/20 W. I.80

N.7 I/2 ° E. I.40 " At end of course Wm.W.Roundy's bars bet.field and pas-

ture bears N.600 W.about 80

lks dist Enter scattering cottonwoods&black willow, bears N&S

N.80° E. . 2.90.

S.88 I/20 E. 6.10 "

N.38 I/29 E. 7.70

N.360 E.

N.220 E.

North 0.90 ch. At end of course road to

Roundy's farm and pasture and through pasture and over bench

to Berry Spring bears E.and W.

N.68 I/4° E. 3.00 "

2.80 " At end of course road bears N. 85° E.and S.85° W.; thence

along the road.

At 2.72 chs.leave road bears

E. At end of course road bears S.about 35 lks.

 $N.25 I/4^{\circ} W. 2.90$ "

2.70 "

N.7 I/20 W. 5.60 "

N.60 E. 2.00 To Meander cor.of fractl.secs.16

and 2I, as described in notes

of subdivisions of this Tp.-See Book C,...

Land below the Washington dam is broken foot of bench and foot hills; above the dam nearly level with bank

from 3 to 5 ft.high, with overflow of from 6 ins.to about 2 ft.

Soil, sandy gravelly and loamy with indications of alkali in river bottom; 4th. and 2nd. rate.

Timber, scattering cottonwood and black willow.

Dense undergrowth on 75.60 chs.

Land in river bottom occupied by WM.W.Roundy and

Wallace Pollock for pasturage and farming purposes. June 21,1899:At this Meander cor.of fractl.secs.16

and 21,1 set off 230 27 N.on the decl.arc; and, at

Meanders, T. 42 S., R. I4 W.-Continued.

Meanders of right bank of the Rio Virgin, ap stream.

Oh I' p.m., observe the sun on the meridian, the resulting lat.is 37 9' 30" N.

Thence in sec.16.

Over nearly level river bottom, gradually ascending; through dense willow undergrowth, and scattering cottonwoods and black willow; in rich sandy and loamy soil, with some gravel and slight traces of alkali.

N.6° E. 9.00 chs. End of course about 60 lks.E.

from farm to head of canal.

N.23 3/40 E. IO.40 " End of course about 25 lks.E.

of irrigation canal, on E.side

of road.

N.280 E. 4.20 "

of Roundy's and Pollock's irrigation canal. in the road

N.39 3/40 E. 5.50 " At 3.00 chs.leave dense willows bears N.and S.; enter scattering willows and weeds.

At end of course irrigation canal bears W.about I.50 ch.

Road runs along foot of canal.

N.35 I/20 E. 3.80 " End of course about 2.00 chs.

E.of canal.

N.31° E. 5.90 " End of course about 2.60 chs.

E.of irrigation canal, and about 50 lks.E.of road.

N.21 3/4° E. 3.00 "

N.15 I/2º E. 3.70

I60 E.and S. I60 W.; thence along the road.At 0.80 leave road bears N.200 E.At I.80 chs.enter dense willows bears E.and W. At end of course about I.75 chs.E.of irrigation canal.

At 0.30 enter road bears N.

Meanders, T. 42 S., R. 14 W.-Continued.

Meanders of right bank of Rio Virgin, up stream.

Fig. 1/2 ° E. 4.20 chs. At 3.15 chs.sluice ditch about 4 ft.wide and 4 ft.deep drains 5.into river. End of course on solid stone bank of canal, size of canal at this point about 5 ft.wide and IO ft. deep cut into solid stone; thence along broken ledges.

W.1.10 chs. End of course at foot of sandstone reefs on W.side of dam. At head of irrigation canal.

N.160 E.3.20 " Course along sandstone reefs, on bank about 8 ft.high.

N.230 E.4.60 " At. 0.50.ch. enter dense wil-

low undergrowth bears N.and S. At 4.00 chs.leave sandstone reefs bears N.200 E. At end of course enter dense greasewood bears N.and S.; still in dense

N.62° E. 4.40 " To the meander cor.of fractl. secs.I5 and I6, heretofore described in notes of subdivisions of this Tp., Book

willows.

Land nearly level on first eight courses; bank from 3 to 5 ft.high; subject to overflow of from 6 to I2 ins. Along the remaining courses the bank is somewhat broken and rolling, running near the foot of the mountain, subject to overflow of from 6 to 8 ins. Bank averages about 7 ft.high-the highest bank being near the dam.

Soil, sandy-loany, gravelly and stony; 2nd.3rd.and 4th. rate. Indications of alkali along the river bottom. Timber, scattering cottonwood and black willow. Dense undergrowth on 37.00 chs.

.Dand along the river bottom is used by Wm.W.Roundy and Wallace Pollock for farming and pasturage.

June 21,1899.

Meanders, T.42 S., R.14 W.-Continued.

Meanders of right bank of the Rio Virgin, up stream.

June 22, 1899: At 9h a.m., 1.m.t., I set off 370 10' N. on the lat.arc;230 27' N.on the decl.arc; and determine a true meridian with the solar, at the meander cor.of fractl.secs.15 and 16 on the M.bank of the Rio Virgin, heretofore described.

Thence I run with meanders in sec. 15.

Along nearly level sandy, gravelly bank; through dense greasewood and willow undergrowth; and scattering cottonwoods, black willow and mosquite or thorn wood.

N.56 1/40 E. 2.70 chs. Bank about 3 ft.high.

M.61 1/40 F. 2.00 Foot of mountain bears II.300 W.about 3.00 chs.

N.52 I/40 E. F.00 " Bank about 4 ft.high. Foot of mountain bears N.500 W.about 1.20 chs.

N.470 E. 7.80 Bank about 3 ft.high.

11.39 3/40 F. 4.60

N.29 1/40 E. 4.60 At end of course foot of mountain bears N.600 W.about 50 lks.dist.

N.35° E. 3.40 " At end of course foot of mountain hears N.550 W.about 20 lks.dist. Bank about 3 ft.

high.

N.40 3/40 E. 4.10 " To the meander cor.of fractl. secs.10 and I5, at 11.690 48' W.,56.42 chs.dist., from cor. of secs. 10, 11, 14 and 15, as described in notes of subdivisions of this Tp., Book C

Land nearly level along narrow river bottom. Soil, rich and sandy with some gravel; 2nd. rate. Timber, scattering cottonwood, black willow and mosguite or thornwood.

Dense undergrowth on 34.60 chs.

Meanders of right bank of the Rio Virgin, up stream.

From the meander cor.of fractl.secs.IO and I5, here-

tofore described, I run with meanders in sec. IO.

Along narrow river bottom over nearly level ground,
in rich sandy-gravelly soil; through dense willow and

in rich sandy-gravelly soil; through dense willow and greasewood undergrowth.

N.40 3/40 E. 4.30 chs. Sloping bank about 3 ft.high, near foot of high sandstone mountain. At end of course

leave cottonwood, black willow and thornwood timber bears
N.35° E. I:80 "

" Foot of mountain bears N.450

W.about 2.00 chs.dist.

N.45 I/20 E. 4.90 " Foot of mountain bears N.W.

about I.30 chs.dist.At end of

course leave dense willows and

 $N.47 \ 3/4^{\circ} E. 9.70$

greasewood bears N.and S. Enter scattering willows.

N.38 3/40 E. 5.50 " At 3.50 chs.enter dense wil-

Foot of mountain bears N.500
W.about I.50 chs.dist.
N.29 3/40 E. 4.20 " At 3.40 chs.leave sandy-grav-

ter broken stony beach.

At end of course on stony beach about 2 ft.above the river bed.

lows and leave scattering wil-

lows bears II.and S.

N.24 3/40 E. 5.70 "End of course about I.00 ch.

from foot of mountain, on stony
gravelly beach.

June 22,1899:At this point on the meander line, I set

off 230 27 N.on the decl.arc; and, at Oh 2m p.m., l.m.

t, observe the sun on the meridian; the resulting lat. is 37° 10' 30" N.
I continue with meanders in sec. 10.

Through scattering black willows and cottonwoods.

Meanders, T. 42 S., R. 14 W. - Continued. Meanders of right bank of the Rio Virgin, up stream. N.23 I/20 E. 7:00 chs. At end of course on rocky broken foot of mountain, bank about 6 ft.high.Thence along rocky broken foot of mountain. Leave willows. N.36 I/20 E. 3.10 . Stony bank about 8 ft.high. N.55 I/4º E. 8.70 At 0.70 enter demse willows and greasewood undergrowth bears N.and S. Leave foot of mountain bears N.500 E. Thence along sandy, gravelly and stony bank about 10 ft. high. N.51 1/20 E. 7.80 Foot of mountain about 25 lks. to left.Bank about IO ft. high. N. 470 E. 4.80 End of course on large boulder at foot of mountain; leave dense undergrowth bears N.and S.; thence along broken ledges at foot of mountain. 11.370 E. 5.70 Bank about 6 ft.high. At end of course leave foot of mountain, bears N.350 E. Enter dense willows bears N.and S. N.31 I/40 E.10.50 Course along steep bank, gradually increasing from 6 to about IO ft.high.Foot of mountain bears to left about 50 lks.dist. N.27° E. 8.50 At 5.00 chs.cross point of foot of mountain. Course along steep bank gradually decreasing from about IO ft. to 4 ft. high. To the meander cor.of fractl.

of river, heretofore described in notes of subdivisions of

79300

Meanders of right bank of the Rio Virgin, up stream.

this Tp., Book

Land level river bottom and broken foot of mountain. Soil, sandy and gravelly and stony; 2nd. and 4th.rate. Timber, scattering cottonwood, black willow and mos-

Dense undergrowth on 79.20 chs. . .

Mountainous land on 22.30 chs. :

Thence in sec.11.

quite or thornwood.

Over broken and level sandy, gravelly beach; through dense greasewood and willow undergrowth.

N.37 05 Te.11.44 chs. To the meander cor.of fractl.

secs.2 and 11, heretofore dedescribed in notes of subdi-

Land slightly broken, and level.

Soil, sandy and gravelly; 2nd. and 3rd. rate.

No. timber.

Dense undergrowth on II.44 chs.

June 22,1899.

visions of this Tp., Book

June 23, 1899:At IOh a.m., l.m.t., I set off 370II! 20"

N.on the lat.arc; 230 27'

N.on the decl.arc; and

determine a true meridian with the solar, at the cor

Meander cor.of fractl.secs.2 and ll heretofore de-

scribed.

Thence I run with meanders in sec.2.

Over sandy, gravelly beach; through dense greasewood and willow undergrowth.

N.39 $3/4^{\circ}$ E. 4.10 chs. On sloping bank about 50 lks.

from foot of mountain.

N.20°E. 13.50 " At 9.50 enter broken ledges

13

Meanders, T. 42 S., R. 14 W.-Continued.

Meanders of right bank of the Rio Virgin, up stream. 17-60 on foot of mountain, and leave

leave dense undergrowth bears II, N.and S. ; thence over broken ledges and large boulders.

N.37 3/40 E. 8.90 chs.

N.24 I/20 E. 7.40

N.50 $I/4^{\circ}$ E.11.10 At 3.00 chs.leave foot of mountain bears N.E., and enter dense willow undergrowth, bears N.and S. At end of course foot of mountain bears to left about I.50 chs. Bank about 3 ft.high.

 $1.48 \ I/4^{\circ} \cdot E. 5.50$ Bank about 5 ft.high. Foot of mountain bears N.W.about 2.00 chs.dist.from end .of: course. Leave willows and enter heavy weeds bears N.and S.

> At 5.80 Road from Washington to Berry Spring and Virgin City bears H.W. and S.E. At end of course bank about

6 ft.high; mountain foot about 75 lks.to left.

E.12.70 At end of course enter broken ledges at foot of mountain.

11.33 1/2° E. 0.80 On broken stony bank at foot about 6 ft.high.

At I.00 ch.leave foot of ledges and mountain bears N.200 E. At end of course fence on S.W.cor.of field and pasture bears S.8IO E.and N.200 W.

June 23, I899: At this point on the meander line, I set off 23° 26' N.on the decl.arc; and, at Oh 2m p.m., l.m. t., observe the sun on the meridian; the resulting lat.

I continue with meanders in sec. 2.

is 370 ll' 50" N.

Along nearly level sandy gravell bank, about 5 ft. high, on S. side of pasture and field fence.

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Meanders, T. 42 S., R. 14 W.-Continued.

Meanders of right bank of the Rio Virgin, up stream.

 $5.80 \text{ I/}2^{\circ} \text{ E. } 5.00 \text{ chs.}$

N.86 3/40 E.17.80 * At 2.10 chs.leave fence bears
N.E. Enter dense willows bears
N.and S.

At 9.10 chs.leave dense willows bears N.and S.; enter scattering willows and rabbit brush, also scattering cottonwood timber.

11.75 I/20 E. 5.50 "

N.890 E. 3.50 " Bank about 3 ft.high.At end of course leave rabbit brush bears N.and S.

M.78 3/40 E. 8.40 " To the meander cor.of fractl. secs.I and 2, being also the

witness cor.of secs.I,2,35 and 36,as described in notes of subdivisions of this Tp., Book

Thence I continue with meanders in sec.2.

Over nearly level sandy, gravelly beach; through scattering willows, cottonwoods and black willow.

W.14 I/40 W. 18.30 chs. To the meander cor. of fractl.

secs.2 and 35 on the N.bdy.of the Tp., heretofore described in the notes of retracement of N.bdy., Book

Land, broken along foot of mountain and nearly level in the river bottom.

Soil, sandy, gravelly and stony; 2nd.3rd.and 4th.rate.

Indications of alkali along the beach.

Dense undergrowth on 3820 chains.

Hountainous land on 17.70 chains.

Land in E.part of section occupied by Mr. Workman for pasturage and farming purposes.

Scattering cotton wood and black willow timbersalong the river bottom.

June 23,1899.

Meanders, T. 42-S., R. 14-W .= Continued.

GENERAL DESCRIPTION.

This township is mountainous and broken, being made up principally of high mountain ranges, broken ridges and foot hills, with narrow valleys between the mountain ranges, and having a general slope and drainage toward the Rio Virgin.

The Rio Virgin enters the M.bdy.of the township at the M.E.cor.of sec.2, and drains on a general South-westerly course through secs.1,2,11,10,15,16 and 21, and thence North-westerly across sections 20 and 19, crossing the West boundary of the township, about 20.00 chs.S.of the M.W.cor.of sec.19.

Through Townships 42 and 43 S., the line runs across the top of high sandy and sandstone mountains on the East, and broken ridges and foot hills on the West.

Unlimited quantities of gypsum and an abundance of fire clay and limestone are found in the town-ship; and there is also some good building stone along the mountain ranges and foot of ridges.

Traces of silver and copper ores are visible in secs. f, 7, 8, 17 and 18; and 1 herewith return the S.E. 1/4 of sec. 6, 8, 8. 1/4 of sec. 1/4 of

Along the burnt sandstone and granite ranges of mountains which parallels the Rio Virgin, and which might be appropriately termed the "Virgin Range", there are some fine specimens of petrified wood, conglomerates and pudding stones; and on top of the sandstone mountain in the S.central and S.E.part of the township are many specimens of volcanic marbles or pebbles of various combinations shapes and forms.

The river bottom soils are generally rich sandy gravelly and loams, with slight indications of alkali along the beach; on the low benches and foot hills and in the narrow valleys there are some good sandy clay and loamy soils, generally intermixed with gravel; and on the mountains ridges and foot hills the ground is generally sandy, stony and gravelly.

There is no timber except in the river bottom,

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Heanders, T.42 S., Range_I4-W.-Continued.

which consists of scattering cottonwood, black willow, mosquite or thornwood, and very little ash.

An abundance of willow undergrowth, greasewood and rabbit brush covers the ground in the river bottom, greasewood, sage, iron wood and cactus grows on the mountainsridges foot hills and in the valleys; and wire grass and water rush is found along the river bottom in sections 19,20 and 21, with other native grasses and shrubbery in sufficient quantities on the mountains, ridges , low benches foot hills and in the narrow valleys. When supplied with sufficient moisture vegetation grows very prolific the year round. Owing to the mild climate this township affords excellent ranges for horses, cattle and sheep, especially during the winter season. Canaigara, sour dock or tanning root grows prolific

in its native state in sections 24,25, and 36, and also in the river bottom in S.W.I/4 of sec.2I.

Berry Spring in section I is a medium size spring of pure cold water emerging from the foot of volcanis ledges; there is also another spring of cold clear water about the same size as the Berry Spring emerging from the foot of the sandstone ledges on the S.side of the river bottom in sec.21, which supplies the settlers for domestic purposes on the H. side of the river; Grape Vine Spring in the S.W.I/4 of section 6, is also a nice sized spring of clear cold water. Willow spring in sec. If runs about 10 gallons per minute. The water is pure and healthful. There are a number of other small springs along the river bottom. The water from these springs is slightly impregnated with alkalines.

Most of the available lands along the river bottom is occupied by settlers and used for pasturage and farming purposes, and also for the growing of fruits and vegetables.

Levi T.Jessup has two rock cabins in sec. I, and occupies nearly all the available land in this sec. for orchard , garden, farm and pasture, and has a part of the land fenced. His improvements are worth about €150.00.

Heanders, T. 42-S., R. 14-W. Continued.

Mr.Workman has a cabin with corralls etc.in sec. 2, with farm and pasture of about 20 acres enclosed with brush and picket dence; also a small garden and and orchard, which takes in nearly all the agricultural land in this section. His improvements are of the value of about \$250.00.

William W.Roundy has a two story stone building known as the Vermillion House in the N.W.I/4 of sec. 2I, with corralls, stables, stackyard etc., valued at about \$800.00.

Wallace Pollock has a frame house with corralls, stackyard etc.in S.W.I/4 of sec.2I of the value of about \$150.00.

All the available land in the river bottom in section 2I is fenced and occupied under joint enclosures by William W.Roundy and Wallace Pollock for farming, gardening fruit culture, pasturage etc.

The land is irrigated from a joint canal which heads at their dam near N.1/4 sec.cor.Sec.16 and runs S.Vesterly along the head of their farms about 80.00 chains. Their joint improvements are worth about \$1500.00.

The river bottom land in E.I/2 of sec.20 is used by Wallace Pollock for pasturage.

The land in the river bottom in sed.20 on N.side of the Rio Virgin is occupied by Ormond Wilkins for farming and pasturage; his improvements consisting of small cabin, fenced and cultivated lands and interest in joint canal, which heads at the Washington dam, are worth about §350.00.

George Prince occupies the river bottom land in E.I/2 of sec.I9, on N. side of the river.His improvements consisting of small stockade cabin, fencing, cultivation, irrigation ditches etc., and interest with Ormand Wilkins in joint canal are worth about \$250.00.

In W.I/2 of sec.20 and in sec. I9 on S. side of the river in the river bottom and on the low bench, the land is occupied by Charles Westover for farming, pasturage gardening and fruit culture. His improvements, consisting of dwelling houses, corralls,

stables, stackyard, orchard etc., fencing and ditches, are of the value of about \$100.00.

The Washington dam in secs.20 and 2I and canal which heads near the S.W.cor.of sec.2I, and runs Westerly across secs.20 and I9, was constructed by a company of Washington County Citizens known as St. George and Washington Canal Company, at a cost of about \$35,000.00 for dam, ditches, flumes, gates, canal etc.

In Alowis Bauer Jr's.Desert Land Entry in secs.

7 and 8, there is about 8 or IO acres of land fenced and prepared for cultivation with ditches, dams and reservoir used in connection therewith of the value of about \$100.00.

Bauer also has a dwelling house with fenced field

the value of about \$150.00.

There is an old rock cabin at what is known as Grape Vine Spring in S.W.I/4 of sec.6 of the value

and pasture, irrigation ditches etc.in section 5, of

of about \$50.00, claimed by Stephen Walker.

June 23, 1899.

May heur H. Galley

June 23,1899. Stay New 10. U.S. Deputy Surveyor.

U.S.Deputy Surveyor

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

by the individuals employed by	Mayhew H.Dalley
United States Deput	y Surveyor, to assist in running magning and
marking the lines and corners described in the foregoing Lines of Township No. 42 South, Range Nand Meridian, in the State of Utah.	field notes of the survey of the Heander
showing the respective capacities in which they acted:	,
Albert C.Dalley	Chairman
Max Woodbury,	, Unaviman.
Daniel S. Macfarlane,	Chainman.
David Dix,	, Moundman.
Daniel S. Macfarlane,	, Aloundman.
David Dix,	, Axman.
Heber Dalley,	Axman.
FINAL OATH OF A	SSISTANTO
We hereby certify that we assisted	
	TIATIEV A. PATJEY
Cose parts on partiage of the	nited States Deputy Surveyor, in surveying all
nose parts or portions of the Meander_Lines_	of Township No. 42 South, Range
No.14 West,	
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Base and meridian, in the State of	fUtah, which are represented
the foregoing field notes as having been surveyed by him	and under his direction; and that said survey
s been in all respects, to the best of our knowledge and	l belief, well and faithfully surveyed and the
rner monuments established, according to the instructi	ons furnished by the United States Surveyor
eneral for the State of Utah.	00 0
Max	Hoodbury Chainman.
	4/UT VI) K ///V/0/-
· Daniel	, Onderman.
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day of July, 1899	So a Coll
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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

United States Deputy Survey
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for the STATE () L. Wulliams
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provisions of an Act of Congress approved August 8, 1846.
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OF THE UNITED STATES SURVEYOR GENERAL, Salf Dake ty Elab Chill 17190 of the survey of The Meander leves of Journ 14 Nest of the Salk Dake Base and Maghen A Dalley 4. dated January 23, 1899, har
OF THE UNITED STATES SURVEYOR GENERAL, Salf Dale Gale General, of the survey of The Mean level of Journell Marchen of Journell March Bake and Marchen A. Dalley 4., dated January 33, 1899, have necessary corrections and explanations made, the said field notes
OF THE UNITED STATES SURVEYOR GENERAL, Salf Dake ty Elab Chill 17190 of the survey of The Meander leves of Journ 14 Nest of the Salk Dake Base and Maghen A Dalley 4. dated January 23, 1899, har

United States Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES. . ,

A list of the names of the individuals employed by Mayhew H. Dalley	
United States Deputy Surveyor, to assist in running,	measuring, and
marking the lines and corners described in the foregoing field notes of the survey of the visions of Township No. 42 South, Range No. 14 West, of the Sal Base and Meridian, in the State of Utah.	
showing the respective capacities in which they acted:	,
Albert C.Dalley,	, Chainman.
Heber Dalley,	Chainman.
Daniel S.Macfarlane,	Moundman.
David Dix,	. Moundman
Daniel S.Macfarlane,	Arman
Henry Houchen,	Arman
David Dix,	Flaaman
FINAL OATH OF ASSISTANTS.	, rayman.
We hereby certify that we assisted Mayhew H.Dalley	
, United States Deputy Surveyor, i	n surveying all
I4 West	·
of the	Salt
ake Base and meridian, in the State of Utah, which the foregoing field notes as having been surveyed by him and under his direction; and the state of all respects, to the best of our knowledge and belief, well and faithfully surmonuments established, according to the instructions furnished by the United State of Utah. Clock 6. Dalley	hat said survey veyed, and the states Surveyor
Daniel S. Mucharlane	, Chainman.
	., Moundman.
Daniel S. Maejarland	
Theray Houche	
(o : 10 !o:	, Flagman.
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SOCOOO My Commission Expires	lley
Second Merch 20th, 1993 Notary Public, Iron county	,Utah.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H.Dalley	, United States Deputy Surveyo
colomnly swear that, in pursuance of a contract received from	Jacob B.Blair
United States Surveyor General for the State of Utan	, bearing date of
23rd day of January , 1899, Thave	well, faithfully, and truly, in m,
proper person, and in strict conformity with the instructions furn	nished by the United States Su
General for the State of Utah , the Manual of Surv United States, surveyed all those parts or portions of the Su	abdivisions of Townshi,
No. 42 South, Range No. 14 West	
Base and meridian, in the State of Utah	which are represented
foregoing field notes as having been surveyed by me, and under m swear that all the corners of said survey have been established and the Manual of Surveying Instructions, and the special written instr General for the State of Utah and in the specific manner	ny direction; and I do further sold d perpetuated in strict accordance ructions of the United States Su- er described in the field notes, an
the foregoing are the original field notes of such survey; and show	
the penalty of perjury under the provisions of an Act of Congress	
May,	hew H. Dalle United States Defluty Su.
. /	United States Definity Sur
Subscribed by said Mayhew H. Dalley and sworn to this day of May 1901 #18## 190	00. }
900000 HS Science	ward HuderSo General for Eslan
· ————————————————————————————————————	
APPROVAL.	
OFFICE OF THE UNITED STATES SURVE	YOR GENERAL,
Salh Lakelity	Gelah Chie 191902
The foregoing field notes of the survey of Medicale	vision of Jamobuf
42 South Range 14 Nos X of The Salt of	Cake Bloc and
Dundian Glatz	
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(M) P 8468	<i>P</i> o
executed by Wayhew 4, Oc	elleg
under his contract No. 24, dated Canecacy	, 1899, havin
critically examined, and the necessary corrections and explanation	ons made, the said field notes, a
surveys they describe, are hereby approved.	ward Haudenhou
1	United States Surveyor Ge
I certify that the foregoing transcript of the field notes of the	ne above-described surveys in

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FIELD NOTES

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~	Of the SALT LAKE BASE AND Meridian,
· ·	IN THE STATE OF UTAH.
,	AS SURVEYED BY
	Mayhew H.Dalley , United States Deputy Surveyor,
	mtract No. 224 , dated January 23rd. , 1899
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racessont ompl	June 15 , 1899
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NAMES AND DUTIES OF ASSISTANTS.

Albert C.Dalley,		Chainman.
Heber Dalley,		Chainman.
Daniel S.Nacfarlane,	•	Noundman.
David Dix,		Moundman.
Daniel S.Nacfarlane.		Axman.
Henry Houchen,		Axman.
David Dix,		Flagman.
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BOOK A 282

INDEX DIAGRAM

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, Albert	C. Dalley	and onl	ber 9-000,
do solemnly swear that we will	well and fait fully	execute the duties of	chainmen; that www.will le
chain over even and uneven gro	and plumb the	tally pins, either by s	ticking or dropping the sam
we will report the true distance	s to all notable obje	ects and the true le	ngths of all lines that we
measuring, to the best of our sk	ill and ability, and ir	accordance with ins	tructions given us, in the s
Retracements of Sub West, of the Salt Lak	e Base and Me	ridian, in the	$\bigcap_{i} \bigcap_{j} \bigcap_{i} \bigcap_{j} \bigcap_{j} \bigcap_{i} \bigcap_{j} \bigcap_{i} \bigcap_{j} \bigcap_{i} \bigcap_{j} \bigcap_{i} \bigcap_{j} \bigcap_{i} \bigcap_{j} \bigcap_{j} \bigcap_{i} \bigcap_{j} \bigcap_{j} \bigcap_{i} \bigcap_{j} \bigcap_{i} \bigcap_{j} \bigcap_{j} \bigcap_{i} \bigcap_{j} \bigcap_{j} \bigcap_{i} \bigcap_{j}
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Subscribed and sworn to before		{	0 -1 10
day of May	, 1899	Senos	a 6 Dolley.
SEAL (My Commission Expired March 20th, 1903		Notary Publ
WE, Daniel	S Macfan	lament Da	avid Die
do solemnly swear that we wi	ill well and truly p	perform the duties of	f moundmen in the estable
of corners, according to the in Retracements of Subdi of the Salt Lake Base	nstructions given us	to the best of our	skill and ability, in the South, Range No. 14
-	۲.	0 5	Larland Mou
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•	1	LY avra	LYNC:, Mou
Subscribed and sworn to before	e me this 12th	·) · · · · ·	
day of May	, 189 <i>9</i>	<i>D</i> · .	1 00 00
	. /	Senor	a lo Walley
SEAL (I	My Commission Expires March 20th, 1903	d	Votary Public
WE, Daniel &	Macfarlas	el and com	me Horicho.
do solemnly swear that we will	l well and truly perf	orm the duties of ax	men in the establishment of
and other duties asserding to	instructions given t	s to the best of our	r skill and ability, in the
Retracements of Subc Range No. 14 West, of	livisions the Salt Lake	Base and Mer	idian, in the State
Utah.	. ´	Daniel & Ma	ecfarland,
		Henry	Houchen,
Subscribed, and sworn to befor	o mothia 12 th		₹ •
3" 4 22		{	: 1 ~ /
day of May	, 1899	Jen	ora & Dall
WEAL O	My Commission Expires March 20th, 1903		Notary Pull
Garid	Dia	do solem:	nly swear that I will well a
perform the duties of flagman	according to instruc	•	•
survey of Retracements 14 West, of the Salt	of Subdivisi Lake Base and	ons of Townshi	ip No. 42 South, Rang the State of Utah.
	1	Wand	19 ux , F
Subscribed and sworn to before	re me this 12th)	a
day of May	, 1899	S f	
SEAL (Mu Commission Francis	- Sly	1-1 PA
6—161	My Commission Expires March 20th, 1903		Wotary O. "

Dains.

Retracements commenced June 7.1899, and executed with a W.and D.E.Gurley Light Hountain dolar Transit For description of which see notes of the S.mer. of T.42 S., H. 14 W. Book A

For complete test of colar apparatus see notes of S.bdy.of T.42 S., B.14 E. Book A

Knowing from retranement of exteriors and survey of subdivisions closing on S.bdys.of necs. 3 and 4 that the lines of these secs. will not close, 1 retrace the line bet. secs. 3 and 4 as follows:

June. 7, 1899: At the old cor. of secs. 3, 4, 33 and 34 on the N.bdy.of this Tp., heretofore described in the notes of retracement of the N.bdy.of the Tp., Book &

At 10h a.m., 1.m.t., I set off 379 12' Rion the latiare; 22°48' Rion the declidare; and determine a true meridian with the solar. Thence I run S. bet.secs. 3 and 4 on retracement line.

Descend gradually over Harrisburg bench; in claygravelly noil; through scattering greasewood and iron wood, undergrowth.

- 3.24 Road from St.George to Salt Lake City bears 8.700 W.and H.700 E.
- 17.40 Branch road bears N.GFO E. and B.GEO W.
- 19.00 Foot of descent about 25 ft. below the sec. cor, bears.
 N.650 E. and S.650 W.; ascend.
- 22.00 Begin ascent of foot of mountain bears \$.700 F. and N.700 E.; leave clay-gravelly soil and enter sandy stony ground.
- 26.89 Top of sandstone mountain S.side of Harrisburg beach about 40 ft. above the foot of mountain, bears S.700 W. and N.700 E. idescend abruptly on S.E. slope of mountain.
- 40.30 Poot of mountain about 250 ft.telow top of mountain bears H. 709 E. and S. 700 Z.

Pall 40 lks.K.of the old 1/4 sec.cor bet.secs.7 and 4, which is a white sandsrone 14x12x4 ins., marked 1/4 on M.face.

The course of this live is therefore 5.00 34" w.

4 and 5.

79.98

Retracements of Subdivisions of T.42 S., R.I4 W.-Continued

Chains. Land on bench, rolling; S. of bench mountainous.

Soil, clay and gravel, sandy and stony; 2nd. and 4th. rate.

, No timber. Hountainous land on 18.30 chs.

June 7,1899.

Knowing from the re-survey and retracements of N. boundaries of the Tp. "and survey of the subdivision lines closing on secs.4 and 5, that the exterior lines of sec.4 will not close I retrace the

line bet.secs.4 and 5 as follows: June IO, 1899: At the S.E.cor.of sec. .. 5, as described in notes. of this date of the subdivisions of

3' N.on the decl.arc; and at llh 59m, a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37° 11'' II.

T.42 S., R.14 W., Book C, I set of 230

40.00 Find no trace of the old I/4 sec.cor.after diligent search. Intersect the H.bdy.of the Tp.90 lks.E.of the old

From this cor. I run N.on a blank line bet.secs.

notes of retracement and re-survey of the N.bdy of the Tp.Book \mathcal{B}_{\cdot} June 10,1899:At this cor.at 2h p.m., l.m.t., I set off 370 It. II. on the lat.arc; 230 04' decl.arc; and determine with the solar a true meri-

cor.of secs.4,5,32 and 33, heretofore described in

4 and 5. Descend gradually , in sandy stony and gravelly soil; through scattering greasewood and iron wood undergrowth.

Thence I run S.00 39' E.on a true line bet.secs.

Foot of descent about 25 ft.below the 8.00 bears M.E. and S.W.; ascend M.W. slope of rocky ridge. Top of ridge about 150 ft.high, bears N.200 E.and S. 39.98

Retracement of Subdivisions of T.42 S., R.14 W.-Continued.

Chains. S.200 W. Set a volcanic stone I2xI0x6 ins.,8 ins.in the ground 39.99 for restored I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone 2 ft.base, I I/2 ft.high, W. of cor.Pits impracticable. Descend gradually over E.slope of ridge. Begin abrupt descent ofer S.W.slope of ridge. 55.00 65.00 Foot of ridge about I25 ft.below the top of ridge .

bears S.E.and N.W.; descend more gradually over low broken ridges and foot hills, on Harrisburg bench.

Road bears II.E. and S.W. The closing cor.of secs.4 and 8 heretofore described Telegraph.line from St.George to Salt Lake City, bears S.W. and N.E. Descend into hollow. .

The S.E.cor.of sec.5heretofore described, in hollow.

about 25 ft.deep which drains S.W.along the M.W.foot of sandstone mountain. Land mountainous, broken ridges and rolling and broken bench.

Soil, sandy, gravelly and stony; 3rd. and 4th.rate.

Mountainous land on 65.00 chs.

No timber.

73.70

74:93

75.40

79-,98

June 10,1899.

Knowing from retracements and re-survey of the N. and W.bdys.of the Tp. and survey of subdivisions with lines closing on Secs.5 and 6, that the exteriors of secs.5 and 6 will not close, I re-survey the S. bdy.of sec.5 as follows:

June 15,1899:At the old cor.of secs.5,6,7 and 8, which I re-marked for cor.of secs.5 and 6 only, as described in notes of subdivisions of this Tp. ?Book I set off 370 ll' N.on the lat.

arc:230 20' N.on the decl.arc; and at 8h a.m.,l.m. t., determine with the solar a true meridian. Thence I run F.

E.on retracement line on S.bdy.of sec.5.

Retracement of subdivisions of T.42 S., R.I4 W.-Continued

- Chains. Over broken sandstone ridges; in sandy, gravelly, clay and stony soil; through scattering greasewood and iron wood undergrowth Descend. Wash about 20 ft.wide and 6 ft.deep drains 5.250 E. 4.60 Ascend. 5.65 | Road bears N.200 E.and S.200 W. Fall 4 lks.W.of the closing cor.of secs. 7 and 8. 9.00 Fall 9 lks.N. of a stone monument established by . 20.IO County Surveyor as M.E.cor.of Alowis Bauer's Desert Land claim of 80 acres. Top of ascend bears N&S. descend. About I40 lks.N.of line is open cut and monument. 22,40 of old mineral claim with indications of copper and silver minerals. Hollow about IOO ft.wide and 25 ft.deep drains S.W. 25.00 Ascend from hollow. About 60 lks.S.is open cut and monument of old min-37.00 eral claim with slight traces of copper and silver minerals. Open cut and monument of old mineral claim bears S. 38.80 about 20 lks. Fall I6 lks.N.of the old I/4 sec.cor., which is a 40.I6 volcanic stone 15x10x 6 ins., marked 1/4 on N.face. I restore the mound on N. 2 ft.high, I I/2 ft.base. Pits impracticable. This cor.is about 75 ft.above the sec.cor. Top of ascent on sandridge about 50 ft.above the I/44I.25 sec.cor., bears N. and S.; descend. Hollow about 100 ft.wide and 25 ft.deep drains S. 58.00 350 W.; ascend from hollow. 70.00 About 30 lks.N.is foot of blue fire clay knoll, about 75 ft.high. Road from St. George to Salt Lake City bears N.500 E. 70.40 and 5.500 W.
- Top of ridge on Harrisburg bench about 100 ft.above 75.00 the last I/4 sec.cor., bears S.400 W.and N.400 E.; thence over broken bench land. 75.60 Road from St.George to Salt Lake City bears II.350 E. and S.350 W.

75.85 Telegraph line from St. George to Salt Lake City,

80.29

bears N.350 E.and S.350 W.; descend into hollow. Fall 49 lks.N.of the S.E.cor.of sec.5, heretofore Retracement of Subdivisions of T.42 S.-R.14 W.-Continued.

Chains. described in the notes of subdivisions of this Tp.

The course of this line is therefore . S.890 39' E. Land mountainous and broken ridges .

Soil, sandy, gravelly, clay and stony; 3rd. and 4th.rate. No timber.

Mountainous land on 75.00 chs.

I continue re-tracements of the boundaries of secs.5 and 6 as follows:

June I5, I899: At the old cor.of secs. 5, 6, 7 and 8, as re-established and marked by me for cor.of secs. 5 and 6 only, heretofore described, I set off 37° 11'

N.on the lat.arc;230 20' N.on the decl.arc; and determine a true meridian with the solar. of 8'00 months.

Thence I run
N.00 20' W.on a blank line bet.secs.5 and 6.

40.00 I find no trace of the old I/4 sec.cor.after diligent search.

79.5*5*

cor.of secs.5,6,3I and 32,heretofore described, as re-established by me in retracement of N.bdy.of this Tp. See notes of Book ${\cal B}$,

June I5, I899: At this cor. I set off 230 20' N.on the decl.arc; and, at I2h M., l.m.t., observe the sun on the

Intersect the M.bdy.of the Tp. 2.08 chs. E.of the

meridian; the resulting lat.is 37° I2' N.
I begin at the re-established cor.of secs.5,6,3I and

32, heretofore described, and run
S.10 50' E.on a true line bet.secs.5 and 6.

Descend over broken sandstone ridges; through scattering greasewood and iron wood undergrowth.

8.80 Wash 65 ft.wide and I5 ft.deep, drains 5.500 W.

400 E.and S.IO 50' E.along the line.

- 10.45 Road from Washington to Leeds in hollow bears N.
- I8.00 Leave road bears S.450 W.; hollow drains S.400 E.; descend over S.E.slope of sandridge.
- 38.78 I find no trace of the old I/4 sec.cor.after diligent search. Set a red sandstone I4xI4x4 ins., I0 ins.in

Retracements of subdivisions of T.42 S. R.14 W.-Contin

the ground, for re-established 1/4 sed cor marked Chains. I/4 on W.face; and raised a mound of stone, 2 ft. base, I 1/2 ft.high, W.of cor. Pits impracticable. This cor.is on S.E. slope of sandridges about 150 ft.below the sector and grant About 85 1ks.W.is a small spring surrounded with a small grove of ash timber. Ravine about I50 ft. wide and 50 ft. deep, drains 65.50 S.250 E.about 60.00 chs., thence S.W. Hollow about 75 ft. wide and 50 ft. deep, drains \$.300 73.40 E.; descent more gradual over broken foot hills. The cor.of secs.5 and 6 on M.bdy.of sec.7 79.58 Land mountainous and broken ridges, very rough. Soil, clay, sandy and stony; 3rd. and 4th.rate. No timber except small groves of ash. Mountainous land on 79.58 chs. high and had Good grazing on the ridges and foot hills. I continue retracements of old subdivision lines as follows: June 15,1899:At the cor.of secs.5 and 6 on the N. bdy.of sec.7 heretofore described, I set off 37011' N.on the lat.arc; 23021 300 N.on the decl.arc; and, at 2 h p.m., l.m.t., determine a true meridian with the solar. Thence I run W.on retracement line bet.secs.6 and 7.3 Ascend over broken ridges and foot hills; in sandy stony and clay soil; through scattering greasewood and iron wood undergrowth. Wash at E.foot of Washington Black ridge about 17.70 10 ft.wide and 4 ft.deep, drains S.E.; ascend abrupton E.slope of ridge. Top of Washington black ridge about 140 ft. high, 26.00 bears S.E. about 3.00 chs., thence S.; and N.W. bout 5.00 chs., thence N. 600 W. about 15.00 che to N. point

of ridge; ascend gradually over top of ridge.

37.80 Top of ascent about 50 ft above the E.point of

Retracement of Subdivisions of T.42 S., R.14 W.-Continued.

Chains. ridge, bears N. and S.; descend gradually. Fall I4 lks. N.of the old I/4 sec.cor., which is an 39.9I iron stone I2xI0x8 ins., marked I/4 on N.face; I restore mound of stone on N.,2 ft.base, I I/2 ft.high Begin abrupt descent over W.slope of black ridge, 40.79 bears S.10° E.; and N.3.50 chs.; thence N.700 W.about 20.00 chs. W.foot of main ridge about I50 ft.below the top, 52.80 bears N.and S. E.foot of spur of mountain bears S.E. and joins main ridge about 5.00 chs.dist, M.E. Ascend spur of ridge. Top of spur about 75 ft.high, bears N.30° E.about 57.00 17.00 chs.and joins main ridge; and S.100 E.about 6.00 chs.to S.point of spur. Descend. 60.00 W.foot of spur and ridge about 75 ft.below top of spur bears N.200 E.and S.200 W.;descend gradually over foot hills. 64.40 Begin descent into wide hollow, bears N. and S.W. 64.94 Bottom of hollow on E.side, about 20 ft.deep, bears S.W. and N.; branch of creek leaves main creek about 60 lks.N., and runs along the bottom of hollow. Creek in bottom of hollow about I ft.wide and 3 ins. 65.00 deep, runs S.2.00 chs.; thence S.200 W.; heads N.200 E. about I5.00 chs.dist. near an old rock house, standing in a grove of cottonwood and ash timber; scattering cotton wood, black willows and ash along the creek, which heads at Grape Vine Spring. 65.29 Begin abrupt ascent on W.side of hollow bears S.W. and N. 67.00 Top of W.side of hollow, be ars N.200 E.and S.200 W.; ascend over broken sandstone and limestone ridges; Fall 27 lks.N.of the old cor.of secs.I, 6, 7 and W.on 77.79 W.bdy.of Tp., heretofore described .- See retracement of W.bdy. Book B. The course of this line is therefore 5.890 48' W. Land mountainous and broken ridges and foot hills. Soil, sandy stony and clay; 4th.rate. Cotton wood , black willow and ash timber, scattering, along the creek.

77.79 chs.

Mountainous land on

Retracements of subdivisions of T.42 S., R.14 W.-Continud:

Chains. On the last 8.00 chs. the surface is sprinkled with

crumbling limestone with indications of covered ledges of limestone. June 15,1899.

GENERAL DESCRIPTION. For General Description see Subdivision notes of

this Township.

R0282

Volume

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalle	У
United States Deputy Surveyor, to assist in running,	measuring, and
marking the lines and corners described in the foregoing field notes of the survey of R of Subdivisions of Township No. 42 South, Range No. 14 West, o Lake Base and Meridian, in the State of Utah,	etracements f the Salt
showing the respective capacities in which they acted:	
Albert C.Dalley,	Chainman
Heber Dalley,	Chainman
Daniel S. Macfarlane,	Moundman
David Dix,	Moundman
Daniel S. Macfarlane,	Arman
Henry Houchen,	Arman
David Dix,	Flaaman
FINAL OATH OF ASSISTANTS.	iii, ii tagman,
We hereby certify that we assisted Mayhew H.Dalley,	
	in surveying all
hose parts or portions of the Retracements of Subdivisions of Tow	, ,
42 South, Range No. 14 West, of the Salt Lake Base and Merid	ian, in the
State of Utah,	
of the	
meridian of which	ana nonneganted
n the foregoing field notes as having been surveyed by him and under his direction; and the been in all respects, to the best of our knowledge and belief, well and faithfully surporner monuments established, according to the instructions furnished by the United S	that said survey rveyed, and the
General for the state of Utah. Albert 6. Dalley	. , Chainman.
Heber Delley Daniel S. Macjarlan	, Chainman.
David Dis. David & Magarlan	, Moundman.
Lenny Hauch	Axman, Flagman.
bscribed and sworn to before me this 21st. day of: July, 1899. Scoope thy Commission Expires SHALO Commission Expires White 20th, 1993 Hotary Public, Iron Count	elley y, Utan.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I. <u>Mayhew H. Dalley</u> , United States Deputy Surveyor,
columnly swear that, in pursuance of a contract received from Jacob B. Blair
United States Surveyor General for the State of Utah bearing date of
23rd. day of January , 1899, I have well, faithfully, and truly, in my c
proper person, and in strict conformity with the instructions furnished by the United States Survey
General for the State of Utah , the Manual of Surveying Instructions, and the laws of
United States, surveyed all those parts or portions of
the Retracements of Subdivisions of Township No. 42 South, Range No.
I4 West,
of the Salt Lake
Base and meridian in the State of Utah which are represented in
foregoing field notes as having been surveyed by me, and under my direction; and I do further solution
swear that all the corners of said survey have been established and perpetuated in strict accordance.
the Manual of Surveying Instructions, and the special written instructions of the United States Surv
General for the State of Utah and in the specific manner described in the field notes, and
General for the State of Utah and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey; and should any fraud be detected, I will so
the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.
Mayhew H. Dalley
Mayhew H. Dalley United States Deputy Surve
·
Subscribed by said <u>Mayhew H.Dalley</u> , and sworn to before me this day of <u>May 1901</u> .
this 31 day of May 1901 188 1900.
A NO 1.1
Idward Huderbay
000000 0 Stal 0
dward Hluder Sau Start Secretary Lecce al file
APPROVAL.
OPPIGE OF THE INVESTOR STATES CHRISTIAN SENERAL
OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Walk date late What ahiel 1916
reliacement Of
The foregoing field notes of the warren of Me dulcoletio ions of Journshief
A2 douth Nauge IA Heax of the Sall Lake Base auf.
Muidian Relate
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executed by Atashew & Walley)
executed by Anghew & Walley) under his contract No. 224 Jated Jacus 23 , 1899, having
under his contract No. 224 Anted January 23 , 1899, having
under his contract No. 224 Clated Jacute 23, 1899, having critically examined, and the necessary corrections and explanations made, the said field notes, and
under his contract No. 224 Anted January 23 , 1899, having
under his contract No. 224 Clated Lacreet 23, 1899, having critically examined, and the necessary corrections and explanations made, the said field notes, and success they describe, are hereby approved.
under his contract No. 224 Clated Jacute 23, 1899, having critically examined, and the necessary corrections and explanations made, the said field notes, and
under his contract No. 224 Clated Lacreet 23, 1899, having critically examined, and the necessary corrections and explanations made, the said field notes, and success they describe, are hereby approved.
under his contract No. 224 Clated Jaccie 23, 1899, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved. Saway fluid States Surveyor Ger.
under his contract No. 224 Clated Jaccie 23, 1899, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved. **The surveys they describe, are hereby approved.** **United States Surveyor General Contractions** **I certify that the foregoing transcript of the field notes of the above-described surveys in

United States Surveyor Gen

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FIELD NOTES

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SOUTH AND	WEST BOUNDARIES	
,		
	OF	
<u>.</u>		

	•	
TOWNSHIP N	10.38 SOUTH, RANGE NO.16 WEST,	
·	,	
-		
Of the SALT	LAKE BASE AND <i>Meridian</i> ,	
	in the STATE OF UTAH	
	AS SURVEYED BY	
Mayhew H.Dalle;	y, United States Depu	ity Surveyor,
der his Contract No. 224	1 January 23rd,	, <i>189</i> ⁹
vey commenced	August 18,	, 1899
	August 23,	
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NAMES AND DUTIES OF ASSISTANTS.

Max W. Woodbury,	Chainman.
Edward J. Higbee,	Chainman.
Heber Dalley,	Moundman.
n. vid Dix	Moundman.
Heber Dalley,	Axman.
David Dix,	Axman.
William Macfarlane,	Flagman.

Volume #

R0282

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INDEX DIAGRAM.

Township , Range					
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Ih.	10	16	15	14	13
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PRELIMINARY OATHS OF ASSISTANTS.

WE, Max W. Woodbury	
	ally execute the duties of chainmen; that we will
	the tally pins, either by sticking or dropping the.
	objects, and the true lengths of all lines that we
• •	nd in accordance with instructions given us, in the
	6 W., of the Salt Lake Base and Me
Utah.	Max W. Woodbury, or
	Edward J. Heigher, or
Subscribed and sworn to before me this 15th	12)
day of August , 189 9	la la Colonia
My Commission Expire	Jenora V Dou
SEAL March 20th, 1993	Notary Public
WE, Heber Dalley	
	ly perform the duties of moundmen in the estal
of corners, according to the instructions given	us, to the best of our skill and ability, in the
the S. and W. bdys. of T. 38 S., R. I Utah.	16 W., of the Salt Lake Base and M
•	Loavid Dix, Mo
·	Loavid Dix, Mo
Subscribed and sworn to before me this 15t	<u>ch.</u> (
day of August , 1899.	Senorali Wall
STAL (STALL)	
Mer h 60.h, 1203	Notary Public
WE, Heber Dalley	and David Dix
·	perform the duties of axmen in the establishment of
• • •	on us, to the best of our skill and ability, in the
•	[6 W., of the Salt Lake Base and M
Utah.	to witor the part hake base and h
•	Helver Dalley
	David Toise
Subscribed and sworn to before me this 15t	th.)
day of August , 1899.	
	Senosa le Dally
SEAL STATE OF THE SPIRE	Notary Public
- ' William Markey in	
I, William Macfarlan	,
perform the duties of flagman according to inst	ructions given me, to the best of my skill and abili
	8 S.,R.I6 W.,of the Salt Lake Bas
Meridian, Utah.	William masfarlane,
Subscribed and sworn to before me this15	<i>j</i>)
day of August , 189 9.	
hiy Continue Expire	Senora & Pro
SEAL (STATE TO A TO A TO A TO A TO A TO A TO A	Motary Public

.. South Boundary of T.38 S., R.16 W.

Chains.

Survey commenced August 18,1899, and executed with a W.and L.E.Gurley Light Mountain Solar Transit, for description of which see notes of survey of S. bdy.of T.42 S., R.14 W., Book A.

Owing to the intense heat in June 1899, when I completed the survey of T. 42 S., R. 14 W., I deemed it advisable to discontinue work in Dixie.

Hy work was discontinued until August 18,1899. Fearing that further suspension of field work in order to take up the Survey of the Townships in the order named in the contract, would throw my work in the higher altitudes in the winter season, and probably deep snows would cause such delays as would prevent me completing my contract at the time named therein; I deemed it advisable at this date to take up the work in the higher altitudes, as the Townships are dis connected and cannot, therefore, conflict in and of the lines.

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a true meridian determined by observations on Polaris, I proceed as follows:

It being inconvenient to take observation at the Tp.cor., I set up the instrument at IO.00 chs.S.of the cor.of Tps.38 and 39 S., Rs.I5 and I6 W., in approximate latitude 37°28' W.; longitude II3°32' W.; I set off 37°28' N.on the lat.arc; I2°57' N.on the decl.arc; and, at 4^h 4^m p.m., l.m.t., determine with the solar a true meridian and mark a point thereof, on a stone firmly set in the ground 5.00 chs.N.of my instrument.

At 9 h 38^m p.m.,l.m.t.,I observe Polaris at East ern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a stone firmly set in the ground, 5.00 chs. H.of my station.

August 18,1899.

South Boundary of T.38 S., R. L6 W.-Continued.

August 19,1899:At 7h a.m.l.m.t.,I lat off the azi-Chains. muth of Polaris 1033, to the West, and mark the True Meridian thus determined, by cutting a small groove in the stone set August I8, on which the true meridian falls about 0.4 ins.W.of the mark determined by the solar. At 8 4m a.m., l.m.t., I set off 37028 N.on the la N.on the decl.arc; and mark a point | i lat.arc; 12045' in the true meridian determined with the solar, by a cross on the stone already set 5.00 chs.N.of my station; this mark falls 0.5 ins.W.of the true meridian established by the Polaris observation. The solar apparatus by p.m.and a.m. observations defines positions for true meridians, respectively about 0'21" East and 0' 26" West of the Meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory. The magnetic hearing of the true meridian, at 8h 30' a.m., is N. 160 I7' W.; the angle thus determined, reduced by the table page IOO , gives the Mean Mag. Decl. I6012' E. I project my line M. to the Tp. cor. above referred

marked and witnessed as described by the Surveyor General, from which cor., I run
W.on S.bdy.of Tp.bet.secs.I and 36.
Ascend abruptly over trachyte ledges on S.E.slope of ridge, through medium dense sage and service berry undergrowth and scattering nut pine and cedars.
Top of spur about 50 ft.above the Tp.cor., bears S.

300 W.and M.300 E.; descend over broken trachyte and

volcanic ridges on S.W., and W.slope.

to, which is a trachyte stone I2xI2x6 ins.above ground

Set a gray granite stone I&xI2x5 ins.,I2 ins.in the ground,for J/4 sec.cor.,marked I/4 on N.face; and raised a mound of stone,2 ft.base,I 1/2 ft.high,N. of cor. Pits impracticable.

6.00

40.00

The cor. is on steep N.W. slope of ridge about 150 ft. below top of spur.

South Boundary of T.38 S., R.16 W.-Continued.

Leave scattering pines and cedars and enter scatter Chains. ing juniper brush , bears N.300 E. and S.300 W.; con-V tinue in . more dense .sage and serviceberry. Wash about IO ft.wide and 6 ft.deep drains S.; ascend 73.50

75,00

40.00

gradually.

Road from St.George to Vance's ranch bears S.and N. Re-enter pine and cedar timber bears N. and S.

76,00 Set a granite stone I8xI6x8 ins., I2 ins.in the ground, 80,00

for cor.of secs.1,2,35 and 36, marked with 1 notch on the E.and.5 notches on the W.edges; from which

A cedar I2 Ins.diam., bears S.59030' W.70 lks.dist., marked

T.39 S., R.16 W., S.2, B.T. A cedar I6 ins.diam., bears N.70°30' W.,93 lks.dist., marked

T.38 S.,R.16 W.,S.35,B.T. A double cedar IO ins.diam., bears S.270 E.,72 lks

dist., marked T.39 S., R.16 W., S.1, B.T. Land mountainous and broken ridges.

Soil, sandy, clay and stony; 4th. rate. Timber, nut pine, cedar and juniper tree.

Undergrowth, sage service berry and greasewood, which with grasses and shrubbery afford fair grazing. Hountainous land on 80,00 chs.

West bet.secs.2 and 35. Ascend over E.slope of high ridge; through medium

Top of ridge about 200 ft.high, bears W. and S. Set a gray granite stone I8xJ2x4 ins., 12 ins.in the

dense pine and cedar timber; over stony ground.

ground, for I/4 sec.cor., marked I/4.on N.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, N. of cor. Pits impracticable.

Descend rapidly over W.slope of ridge. West foot of ridge about 225 ft.below top of same,

.75.00 bears N. and S.; gradually descend over foot hills 78.34

South Boundary of T.38 S., R.16 W.-Continued.

Chains sloping to V. and S.W. Telegraph line running from St.George to Panacca bears S.IO° W.and H.IO° E.

Set a gray granite stone 24x14x4 ins., 18 ins.in the 80.00 ground, for cor.of secs. 2,3,34 and 35, marked with 2 notches on F. and 4 notches on W.edges; from which

A.cedar 8 ins.diam., bears M.69030' W.,77 lks.dist., marked.

T.38 S., R.16 W., S.34, B.T. A cedar 8 ins.diam., bears M. 620 45' E., 51 lks.dist.,

marked T.38 S., R.16 W., S.35, B.T.

A double cedar 8 ins.diam., bears S.150 E., 152 lks. dist., marked T.39 S., R.16 W., S.2, B.T. A cedar 8 ins.diam., bears S.005' W., 180.lks.dist., marked T.39 S., R.16 W., S.3, B.T. Land mountainous and broken covered with nedium dense

nut pine and cedar timber, and sage, greasewood and ser vice berry undergrowth. Undergrowth, shrubbery and grasses afford fair grazing Mountainous land on 80.00 chs. August 19,1900:At this cor. I set off 12040'30" I.on the decl.arc; and, at 0h 3m p.m., l., m.t., observe the

sum on the meridian; the resulting lat.is 370 28' N. West, bet. secs. 3 and 34.

Gradually descend over stony ground; through scattering cedar and pine timber. 11,30 30.00 chs.N. I9.85

Road from Pine Valley to Hountain Headows and Modena bears S., and joins the Main St. George Road at about Road from St. George to Mountain Headows and Modena, bears S.IOO W.and N.IOO E. Wash at foot of descent about 75 ft.below the sec.com 22.IO about 20 ft.wide and 5 ft.deep, drains S.500 E.; begin

South Boundary of T.38 S., R.16 W.-Continued.

Chains. ascent of N.E.slope of ridges. Set a gray granite stone I8xI4x6 ins., I2 ins.in the 40.00 ground, for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone 2 ft.base, I I/2 ft.high, N.of cor.. Pits impracticable. This cor.is on N.E. slope of ridge about 75 ft.above the wash. Trail bears N.50 W.and S.50 E. 47.53 Top of ridge about I25 ft.above the I/4 sec.cor., 64.00 bears S.500 E.and N.500 W.; descend over very steep and rocky S. and S.W. slope of ridge. Set a gray sandstone 24x12x6 ins.,18 ins.in the ground, 00.08 for cor.of secs.3,4,33 and 34, marked with 3 notches on F. and W. edges; and raised a mound of stone 2 ft. base, I I/2 ft.high, W.of cor. Pits impracticable. The cor.is on steep and rocky S.W.slope of ridge, about 75 ft.below top of same. . Land mountainous and broken, Soil, sandy, clay and stony; 4th.rate. Timber, scattering nut pine and cedars. Greasewood, sage and service berry undergrowth and shrubbery, which with native grasses afford fair grazing.

Mountainous land on 80.00 chs.

40.00

August 19,1899.

August 21,1899:I set off 37028' N.on the lat.arc; I20 04. N.on the decl.arc; and, at 9h a.m., l.m.t., determine a true meridian with the solar, at the cor.of secs.3,4,33 and 34, on the S.bdy.of the Tp., as heretofor described; thence I run W.bet.secs.4 and 33.

Descend over broken ridges on steep, S., S.W. and W.

slopes; through scattering pine and cedar timber.

Set a trachyte stone I8xI4x6 ins., I2 ins. in the ground,

for I/4 sec.cor., marked I/4 on N. face; and raised a

mound of stone, 2 ft.base, I I/2 ft.high, N. of cor.

Pits impracticable. This cor.is at foot of descent,

South Boundary of T.38 S., R.16 W .- Continued

Chains. in a hollow which drains S.200 W., about I.00 ch., thence S.500 W.; and about 125 ft. below the sector.

Ascend E.and S.E.slope of broken ridges. Top. of ridge about 75 ft. high, bears N. and S.; descend. 50.00

Bottom of hollow about 75 ft.deep, drains S.; ascend. 52,60 56.00

Top of ridge on W.side of hollow about 80 ft.above, bottom of hollow, bears N. and S.; descend over S. and S. W. slopes of broken and rocky ridges. .

Enter dense cedar and pine timber and oak undergrowth; 62.00 bears II.and S.

Set a white sandstone I6xI0x8 ins., II ins.in the ... 00,08 ground, for cor.of secs. 4,5,32 and 33, marked with 4. notches on E. and 2 notches on W. edges; afrom which A double cedar IO ins., diam., bears 5.840 W., 22 lks.

dist., marked . T.39 S., R.16 W., S.5, B.T. A cedar I2 ins.ddam., bears N.420 W.,50 lks.dist., marked.

T.38 S., R.16 W., S.33, B.T.

T.38 S.,R.16 W.,S.32,B.T. A cedar I4 ins.diam., bears N.630 E.,75 lks.dist., marked.

A cedar I4 ins.diam., bears S.78° E., 45, lks.dist., marked T.39 S., R.16, W., S.4, B.T. Land mountainous and broken, with scattering pine and

cedars on E.62.00 chs. and dense pines and cedar on W.18.00 chs. Scattering greasewood, sage and service berry undergrowth on E.part of line and dense oak and scattering juniper trees or brush on W.part. Fair grazing.

West, bet.secs.5 and 32, gradually descending on S.W. slope of ridge; through dense cedar and pine timber.

Wash, IO ft. wide and IO ft. deep, drains W.; 3.00

Mountainous land on 80.00 chs.

South Boundary of T.38 S., R.16 W .- Continued.

Chains. Leave wash at about 25 ft.below the sec.cor., drains 4.00 S.80° W.; begin ascent of S.E., S. and S.W. slope of high broken ridges with course of drainage Southerly into ravine. Set a gray hard sandstone I4xI0xI0 ins., I0 ins.in 40.00 the ground, for I/4 sec. cor., marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I 1/2 ft.high, N.of cor. Pits impracticable. The cor.is on steep and rocky Southerly slope of high mountain, about 150 ft. above the sec.cor. 5I.57 Top of ridge about ISO ft.above the I/4 sec.cor., bears N.400 E.and S.700 W. Aug.21,1899:At this point on line, I set off 120 I' N.on the decl.arc; and at 0^h 3^m p.m., l.m.t., observe, he sun on the meridian; the resulting lat.is, 370 28' N. Descend over H.W. slope of spur of ridge. 70.00 Bottom of hollow at foot of ridges about 200 ft.below top. of ridge, drains S.700 W.; ascend on S. slope of ridge or spur. Top of spur about 100 ft.above the hollow, bears 75.00 N.and S.; descend over steep S.W.slope of ridge. 80,00 Set a white sandstone I4xI0x8 ins., I0 ins.in the ground, for cor.of secs.5,6,31 and 32, marked with 5 notches on E.and, I notch on W.edges; and raised a mound of stone, 2 ft.base, I 1/2 ft.high, W. of cor. Pits impracticable. The cor. is on steep S.V. slope of ridge about 25 ft.below top of spur. Land mountainous and very much broken, covered with thich nut pine and cedars; also dense undergrowth of

West, bet.secs.6, and 3I.

Descend gradually over S.W. slope of ridge,

, service berry and oak. Soil, clay, sandy and stony; 4th.rate. Good grazing.

Mountainous land on 80.00 chs.

South Boundary of T.38 S., R.16 W.-Continued.

	Chains.	
	3.00	Begin abrupt descent on W.slope of ridge or spur, .
		hears N. and S.
••	8.30	Creek in bottom of ravine about 200 ft.below the sec.
		cor., runs 3.20° W., and heads near Mountain Meadow
33		Monument. Water is about 3.1ks wide and 4 ins. deep,
		is clear, fresh and cool. This creek, is known near
		its source as Mountain Meadow Creek, but at this
·		point takes the name of the Mc.Godsey Creek.
	8.50	Spring branch about I.00 ch.wide E.and.W., and 4.00
		chs.long N.and S.; ascend rapidly over N.E. and N.
•		slopes of ridges.
` / .	10.00	Trail bears S.E.and N.W.
	27.00	Top of spur of ridge about 200 ft.above the creek,
		bears N.700 E.and S.700 W. ; descend.
	32.00	Foot of spur about 40 ft.below the top, bears N.700
		E.and S.70° W.; ascend gradually.
	40.00	Set a gray granite stone I8xI2x6 ins., I2 ins.in the
		ground, for I/4 sec.cor., marked I/4 on N.face; and
		raised a mound of stone, 2 ft.base, I 1/2 ft.high, N.
		of cor. Pits impracticable.
		The cor.is on H.E.slope of spur about 20 ft. above the
, , ,	-	foot of same.
\$ -*	46.50	Top of spur of ridge about 80 ft.above the I/4 sec.
	1.:	cor., bears S.200 E.and N.200 W.; trail bears S.400
	,	E.and N.40° W.; descend over S.W.slope of high ridges.
	76.70.	tout TO ft wide and 4 ft
		deep, drains S.100 E.; ascend gradually from wash, over
	l I	S.E.slope of ridge.
	80.00	Set temp.cor.of Tps.38 and 39 S., Rs.16 and 17 W.on
•		Southeasterly slope of ridge about I50 ft.below top
		top of last spur.
		August 21,1899.
		I afterwards permanently establish the Tp.cor.80 lks.
	•	W.of temp.cor., this being the point of intersection
	a #	with the W.bdy.of the Tp.as run due S.from N.W. cor.
•		at

Set volcanic stone I5xI0xI0 ins., I0 ins.in the ground,

for cor.of Tps.38 and 39 S., Rs.16 and I7 W., marked 38 S., on N.E., I6 W.on S.E., 39 S. on S.W., and I7 W.on

South Boundary of T.38 S., R.16 W.-Continued.

Chains. N.W.faces, with 6 notches on each edge; and raised a mound of stone, 2 ft.base, I 1/2 ft.high, S.of cor. Pits impracticable. From which cor., A cedar I6 ins.diam., bears N.80°30' E., I38 lks.ddst., marked T.38 S., R.16 W., S.31, B.T. Land mountainous and broken ridges. Soil, sandy, clay and stony; 4th . rate. Timber, medium dense nut pine and cedars on first I/2 mile; scattering pine and cedars on last I/2 mile; and scattering cottonwoods along the Mc.Godsey creek. Medium dense undergrowth of sage, service berry and oak , with an abundance of shrubbery and grasses, which afford good grazing. Mountainous land on 80.80 chs.

August 25,1899...

GENERAL DESCRIPTION:

For General Description see Notes of the Subdivisions of this ${\tt Tp.,Book}\ {\it H}$.

August 23,1899.

Mayhew 26 Dalley
U.S. Deputy Surveyor.

West Boundary of T.38 S., R.16 W.

August 22,1899:I set off 37028' N.on the lat.arc; IIO 45! N.on the decl.arc; and at 8h3m a.m.,l.m.t., determine a true meridian with the solar, at the temp.cor.of Tps.38 and 39 S.,Rs.16 and I7 W., set by me August 2I,1899; in survey of S.bdy.of this Tp. Thence I run

North, on a random line, along the W.bdy.of the Tp., setting temp.I/4 sec.and sec.corners at intervals of 40.00 chains; and, at 470.40 chs., intersect the II. bdy.of the Tp., 80 lks.E.of the old cor.of Tps.37 and 38 S., Rs. I6 and I7 W., which is a sandstone I8xI2x8 ins., projecting 6 ins. above ground, marked and witnessed as described by the Surveyor General.

I begin at the cor.of Tps.37 and 38 S., Rs.16 and 17 W., above described and survey the W.bdy of the Tp.as follows:
South, on a true line bet.secs.I and 6.

Ascend over broken mountain ridges; through dense sage, service berry and oak undergrowth.

Ravinc 100 ft.wide and 50 ft.deep, drains \$.50° W...

Top of ascent on spur of ridge about 75 ft.above the Tp.cor., bears N.E. and S.W.; descend.

Set a gray granite stone I5xI0x6 ins., 10 ins.in the ground, for I/4 sec.cor., marked I/4 on W.face; and

of cor. Pits impracticable.

The cor.is on S.W.slope of spur of ridge about FO

ft.below the top.

raised a mound of stone 2 ft.base, I I/2 ft.high, W.

Wash at foot of descent about 50 ft.below the I/4 sector, about 8 ft.wide and 3 ft.deep, drains $N40^{\circ}$ W. ascend from favine or Wash.

38.40 Trail bears N. 10° W.and S. 10° E.

20.25

25.45

30.40

34.65

Top of ascent on spur of ridge abdout IOO ft.above the wash, bears N.500 W. and S.500 E.; descend rapidly over speep rocky S.W. slope of spur.

Bottom of ravine about I50 ft.deep, with small stream of pure fresh water about 6 lks.wide and 4 ins.deep drains N.50° W.; heads S.50° E.about 30.00 chs.dist.

Ascend rapidly from ravine.

67.90 Top of ascent about I50 ft.above the ravine, on spur

3		West Boundary of T.38 S., P.J6 WContinued.
	Chains.	of ridge, which bears E. and W.; descend.
-	70.40	Set a gray granite stone 18x8x4 ins.,12 ins.in the
-		ground, for cor. of secs. I, 6, 7 and I2, marked with 1
,		notch on N.and 5 notches on S. edges; and raised a
		mound of stone 2 ft.base, I I/2 ft.high, T.of cor.
		Pits impracticable. The cor.is on S.E.slore of
		spur about 50 ft.below the top.
	· :	Land mountainous and broken ridges
	•	Soil, clay, sandy and stony; 4th.rate
1		No timber, except a few scattering cedars on first
		IO.00 chs.
	•	Sage, service berry and oak undergrowth, with and
		abundance of shrubbery and native grasses afford
	٠,	fair grazing.
	. ,	Mountainous land and dense undergrowth on 70.40 chs.
	•	August 22,7899.
-		
	,	
		August 23, 1899: I set off 37032' F.on the lat.
		arc; II ⁰ 23'50" M.on the decl.arc; and, at 9h a.m., l.m.
		t., determine a true meridian with the solar, at the
	٠.	cor.of secs.1,6,7 and 12, heretofore described,
		Thence Trun
		South, bet.secs.7 and I2.
		Descend over S.F. slope of spur of ridge; through dense
		oak and service berry undergrowth.
	7.35	Hollow and foot of spur about 75 ft.below the sec.
		cor., descends N.50° E., and ascends S.50° W.; ascend
		rapidly over F.E. and E. slore of high Fnold.
	29.00	Top of ascent on E.slope of knoll, about 250 ft.above
		the foot and about 40 ft.below top of knoll which
		bears W.about I.00 ch.; this knoll joins high mountain
•	ĺ	range on the S.E.; descend rapidly over S.E. and S.slope
		of knoll.
	40.00	Set a gray granite stone IExI2x6 ins.,10 ins.in the
	1	ground, for I/4 sec.cor., marked I/4 on W.face; and
	1	raised a mound of stone 2 ft.base, I I/2 ft.high, W.
		of cor. Pits impracticable. This cor.fs on S.W.

slope of ridge which joins the knoll, about 150 ft.

West Boundary of T.38 S., R.16 W.-Continued. chains. below the top of knoll.. Wash at foot of knoll and ridges about 250 ft.below 49.50 top, I5 ft. wide and 5 ft. deep, drains S. 40° W.; ascend over broken spurs of ridges. Hollow at N.foot.of knoll about 100 ft.wide and 50 59.90 ft.deep, drains W.; ascend from bottom of hollow. Top of knoll about 75 ft.high; descend. 63.00 Wash at S.foot of knoll about 60 ft.below the top, 70.70 about 6 ft.wide and 3 ft.deep, drains N.500 W.; ascend. Trail bears 3.600 E.and M.600 W., running to a spring 70.75 about 50.00 chs.dist. Set a white soap stone 20x16x4 ins., 15 ins.in the 00.08 ground, for cor.of secs.7,12,13 and 18, marked with 2 notches on the H. and 4 notches on the S. edges; and raised a mound of stone 2 ft.base, I 1/2 ft.high, W. of Pits impracticable. cor. This cor.is on H.W.slope of high ridge, about 75 ft. above the last wash, in heavy oak brush. Land mountainous, and broken ridges.

Soil, sandy and clay covered with gravel and partly covered with stone; 3rd. and 4th. rate. Undergrowth of oak brush and service berry with shrubbery and grasses in abundance, afford fair graz-

Mo timber.

ing.

21.25

Mountainous land and land covered with dense undergrowth on 80.00 chs.

South, bet.secs. 13 and 18.

Ascend over N.W.slope of ridge; through dense oak and service berry undergrowth.

Hollow about 150 ft.wide and 50 ft.deep,drains S.

- 50° W.; enter scattering cedars bears N.W. and S.E. 27.00 Leave cedars bears E. and W.
- 28.25 Leave oak brush bears S.E. and M.W.
- 30.47 Trail bears N.500W.and S.500 E.

 35.70 Enter dense oak undergrowth bears N.W.and S.E.
- 40.00 Set a white soap stone 24xI2x6 ins., I8 ins.in the

West Boundary of T.38 S., R.16 W .- Continued.

ground, for I/4 sec.cor., marked I/4 on W.face; and Chains. raised a mound of stone 2 ft.base, I I/2 ft.high, W. of cor. Pits impracticable. The cor.is in thick oak brush on W.E.slope of ridge, about. I50 ft. above the sec.cor. 53.50 Top of ridge about 50 ft.above the I/4 sec.cor., bears S.80° E.and H.80° W.; descend over steep S.E. slope of ridge. Ravine at foot of ridge about 150 ft.below top, 15 ft. 65.00 wide and 8 ft.deep, drains S.500 E.; ascend over N.E. slope of ridge. 69.67 Trail bears M.50° W.and S.50° E. 72.80 Trail bears N.500 W.and S.500 E. .75.50 Top of spur about 75 ft.high, bears F. and W.; descend. 79.50 Foot of descent and hollow about 75 ft.below top pf spur, drains, E.; hollow heads W.at top of mountain about 10.00 chs.dist.; ascend on N.E. slope of ridge. 00.08 Set a gray granite stone IExIOx6 ins., IO ins.in the ground, for cor. of secs. 13, 18, 19, and 24, marked with. 3 notches on N.and S.edges; and raised a mound of stone 2 ft.base, I I/2 ft.high, W.of cor. Pits impracticable. Land mountainous and broken ridges. Soil sandy and clay and partly stony; 3rd. and 4th. rate. No timber, except scattering cedars in N.I/2 of secs. Undergrowth, oak and service berry with shrubbery and grasses in abundance to afford fair grazing. Mountainous land or land covered with dense under-

South, bet.secs. 19 and 24.

growth on 80.00 chs.

Ascend over N.E. slope of high ridge; through dense oak and service berry undergrowth.

- 7.00 Top of high mountain about IOO ft.above the sec.cor. bears N.50° W.and S.50° E.; descend over S.slope of mountain.
- 15.50 Foot of descent about 100 ft.below top of ridge; bears

West Boundary of T.38 S.-R.16 W.-Continued

Chains. E. and W.; a spring branch bears E. about 15.00 chs. drains Southwesterly.

Top of spur of ridge about 75 ft.high, bears N.200E. 22.50 and S.200 W.; descend rapidly over S.slope of high spur and ridge.

Trail bears N.50°E.and S.50° W. 33.30 Trail bears N.E. and S.W. 39.50.

Set a gray granite stone IExI2x8 ins., 12 ins. in the 40.00 ground, for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone 2 ft.base, I I/2 ft.high, W. of Pits impracticable. cor...

This cor.is near foot of S.slope of ridge about I50 ft.below top of spur.of.ridge. Wash at foot of descent about 30 ft. below the I/4 sec. 42,45 cor., about I5 ft. wide and 6 ft. deep, with water in . holes, drains 5.500 W.; known as Hard Scrabble Greek.

Ascend from wash over broken ridges and ledges on M.W.slope of high mountain. Enter scattering cedars. Ravine about 5.00 chs.wide and IOO ft.deep,drains S. 58.50

slopes of high ridge. and divide about 300 ft.high, bears N.200 74.00 Top of main W.and S.; thence descend over top of divide.

Pits impracticable.

Foot of descent on top of divide bears E.and W.; ascend. 77.50 Set a gray granite stone I8xI2x6 ins., I2 ins.in the 80.00 ground, for cor.of secs. 19,24,25 and 30, marked with 4 notches on N. and 2 notches on S. edges; and raised a mound of stone 2 ft.base, I I/2 ft.high, W.of cor.

80° W. Ascend rapidly from ravine over M., M.E. and E.

Land mountainous and broken, very rough and rocky on S. I/2 mile. Soil, clay, sandy and gravelly, with ledges and boulders on last 35.00 chs; 3rd, and 4th, rate.

No timber, except stattering cedars on last 37.50 chs.

Undergrowth of oak, and service, berry with shrubbery and grasses in abundance afford good grazing. Mountainous land and land covered with dense under-

August 25,1899:Atothisfsec.cor., I set off IIº20'50"N on the decl.arc; and, at Oh2m p.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37029'

West Boundary of T.38 S., R.16 W.-Continued.

Chains	South, bet. secs. 25 and 30.
	Ascend over top of divide; through dense sage; oak.
	and service berry prush.
1.50	Top of ascent on givide about 50 It.above the sec.
	cor., bears M. and S.W.; descend over S.E. slope of
	ridge.
15.00	Foot of descent about 125 ft.below top of divide,
	bears N. 700 E. and falls, rapidly to S. 700 E.; ascend
٠.	N.E. slope of spur of main ridge.
20.40	Top of spur of ridge about 100 ft.above, the .N.E.
	foot, rises and falls rapidly N.70° W. and S.70° E.
	respectively.Descend over S.E.slope of spur.
36.00	Ravine at foot of descent about 175 ft.helow top of spur
	spur, about 10 ft. wide and 10 ft.deep, falls rapidly
•	to F., and heads W. about 10.00 chs.near top of divide.
•	Ascend on M.E. slope of spur of main ridge.
40.00	Set a gray granite stone I6x10x6 ins., II ins.in the
	groups, for I/4 sec. cor., marked I/4 on W.face; and
	raised a nound of stone 2 ft. base, I 1/2 ft. high, W.
	of cor. Pits impracticable.
	This cor.is on M.E. slope of spur of main ridge about
	IFO ft.anove the ravine.
40,70	Top of spur of hain ridge about 26 ft.above the I/4
	section., bears N. 70° E. and S. 70° W. ; descend over S.E.
	and S.slope of spur and ridges.
54.90	Begin abrupt descent through hollow with high ridges
	or cither side; enter nedium dense cedar and pine tim-
	ber bears E.and W.
55,50	Wash about IO ft.wide and 4 ft.deep drains S.700W.;
	thence along E.side of ravine on steep W.slope of
	broken ridges in rock canon.
66.80	Small spring in bottom of wash about 50 ft.deep,
	at S.foot of ledges, bears W.of line about I.00 ch.
	dist.
73.87	Wash about 15 ft.wide and about 5 ft.deep in bottom
	of rock canon, about 250 ft.below top of last spur of
	main ridge, drains S.50° E.; thence ascend along
	steep S.E.slope of ridges on W.side of rock canon.
75.50	Ascend over perpendicular ledges about Ib ft.high,
	bears S.E. and N.W.

West Boundary of T.38 S., R.16 W.-Continued.

Chains. Set a gray granite stone I8xI0x8 ins., I2 ins.in the 80.00 ground, for cor.of secs, 25, 30, 31 and 36, marked with 5 notches on N.and I notch on S.edges; and raised a mound of stone 2 ft.base, I 1/2 ft.high, W.of cor. Pits impracticable. I afterwards mark withess points to the sec.cor.as follows: from which A nut pine,8 ins.diam., bears S.420F., 19 lks.dist., marked T.38 S., R.16. W., S.31, B.T. A nut pine I2 ins.diam., bears S.73 I/20 W.,37 lks. dist.,marked . T.38 S., R.17 W., S.36, B.T. A nut pine I2 ins.diam., bears N.31 1/20 W., 102 1ks. dist.,marked T.38 S., R.17 W., S.25, B.T. A cedar 8 ins.diam., bears N.42 3/40 E.89 lks.dist., marked. T.38 S., R.16 W., S.30, B.T. This cor.is on steep side hill on W.side of rock canon, sloping S.50° E., and about 75 ft. above the wash in bottom of rock canon. Land mountainous and broken ridges. Spil; clay sandy and stony; 4th.rate. Timber, medium dense nut pine and cedars on last 25.10 chains. Undergrowth, shrubbery and grasses in abundance, which afford good grazing: Mountainous land and land covered with dense under-

S.bet.secs.31 and 36; descending along broken ridges on W.side. of rock canon, over steep S.E.slope; through medium dense nut pine and cedars; and through dense sage, service berry and oak undergrowth.

Ravine 20 ft.wide and 10 ft.deep, about 50 ft.below

the sec.cor., drains rapidly S.50°E. into rock canon; ascend from ravine over N.E. slope of high ridge.

growth on 80.00 chs.

t Bound in a fi

West Boundary of T.38 S., R.16 W.-Continued.

Chains. Top of spur or ridge about I50 ft.above the ravine, 27.00 bears S.30° E. and N.30° W.; descend rapidly over S.W. slope. Leave cedar and pine timber bears E. and W. Set a gray granite stone I8xI0x6 inc., I2 ins.in the 40,00 ground, for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone 2 ft.base, I 1/2 ft.high, W. of cor. Pits impracticable. This cor.is on S.W. slope near foot of same about 200 ft.below top of last spur or ridge. Foct of descent and hollow about 50 ft.below the I/4 42.50 sec.cor., drains S.foo E.; ascend on W.E.slope of spuri. Top of spur about 75 ft.above the hollow, bears N.W. 50,00 and S.F.; descend over S.W. slope of spur. 53,00 Hollow at foot of descent about 100 ft. below top of spur, drains S.F.; ascend M.F. slope of spur. Top of spur of main ridge about 100 ft. above the hollow 58.00 low, bears N.40° W. and S.40° F.; thence descend rapidly over S.W. and O. slope of high ridges. Enter conticuing nedar and pine timber bears Pland W. 65.00 75.00 Begin more gradual descent, bears E. and W. 00,03 Intersect the S.bdy.of the Tp.at the cor.of Tps.38 and 39 S., Rs. 16 and 17 W., as permanently established by me in Survey of S.bdy.of this Tp.and described in the Notes thereof. Cor. about 250 ft. below top of spur. Land mountainous and broken ridges. Soil, sandy clay and stony; 4th. rate. Timber, nut pine and codars-scattering on S.part of secs., and medium dense on Il. part. Undergrowth, shrubbery and grasses in sufficient quantity to afford fair grazing. Mountainous land and land covered with dense undergrowth on 80.00 chs. August 23, 1899.

GENERAL DESCRIPTION:

For General Description sec Notes of the Subdivisions of this Tp., Book H

August 23, 1899.

Mayhew H. Dalley

U.S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H.D.	alley
United States Deputy Surveyor, to assist in runn	ing, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of	the S.and W.
bdys.01 T.38 S., R.16 W., of the Salt Lake Base and Merid	ian,Utah,
showing the respective capacities in which they acted:	
Max W. woodbury,	, Chainman.
Edward J.Higbec,	, Chainman.
Heber Dalley,	, Moundman.
David Dix,	, Moundman.
Heber Dalley,	
David Dix,	
William Macfarlane,	Flaaman.
FINAL OATH OF ASSISTANTS.	
We hereby certify that we assisted Mayhew H. Dalley	
Officer Deputy Survey	
hose parts or portions of the S. and W. bdys. cf T. 38 S., R. 16 W.	
hose parts or portions of the S. and W. bdys. cf T. 38 S., R. 16 W.	f the Salt Lake
Base and meridian, State of Utah who direction; as been in all respects, to the best of our knowledge and belief, well and faithfully orner monuments established, according to the instructions furnished by the Unit	the Salt Lake hich are represented and that said survey y surveyed, and the
Base and meridian, State of Utah who direction; as been in all respects, to the best of our knowledge and belief, well and faithfully orner monuments established, according to the instructions furnished by the Unit	f the Salt Lake hich are represented and that said survey y surveyed, and the ed States Surveyor
Base and meridian, State of Utah who direction; as been in all respects, to the best of our knowledge and belief, well and faithfully orner monuments established, according to the instructions furnished by the Unit deneral for	the Salt Lake hich are represented and that said survey y surveyed, and the ed States Surveyor Chainman.
Base and meridian, State of Utah who direction; as been in all respects, to the best of our knowledge and belief, well and faithfully orner monuments established, according to the instructions furnished by the Unit deneral for	the Salt Lake hich are represented and that said survey y surveyed, and the ed States Surveyor Chainman.
hose parts or portions of the S. and W. bdys. of T. 38 S., R. 16 W. Base and meridian, State of Utah who as been in all respects, to the best of our knowledge and belief, well and faithfully orner monuments established, according to the instructions furnished by the Unit identified. Way of Morals Edver Dally Lowed Llix	the Salt Lake hich are represented and that said survey y surveyed, and the ed States Surveyor Chainman. , Chainman. , Moundman.
Base and meridian, State of Utah who direction; as been in all respects, to the best of our knowledge and belief, well and faithfully orner monuments established, according to the instructions furnished by the Unit deneral for	the Salt Lake hich are represented and that said survey y surveyed, and the ed States Surveyor Chainman. Chainman. Moundman. Moundman. Asy, Asman.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H.Dalley	United States Deputy Su
solemnly swear that, in pursuance of a contract received from	o acon b. brair
January 1895, 1 is	ave well, faithfully, and crury,
proper person, and in strict conformity with the instructions General for Utah , the Manual of S	urveying Instructions, and the
General for, the Manual of S United States, surveyed all those parts or portions of R.16 W., all	s. and w. bays. or 1.00
R,16 W,,10	
	of the Salt Da
Base and meridian in the State of	Utah , which are represe
foregoing field notes as having been surveyed by me, and unde	er my direction; and I do furth
swear that all the corners of said survey have been established the Manual of Surveying Instructions, and the special written it General for utah and in the specific m the foregoing are the original field notes of such survey; and	l and perpetuated in strict according tructions of the United State anner described in the field not should any fraud be detected,
the penalty of perjury under the provisions of an Act of Congr	Vayhew 26 Dall
	United States Deput
this day of May 1901, 189 OBSERT OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF SEAL OF S	Edward Mender vega General for
OFFICE OF THE UNITED STATES SUI	RVEYOR GENERAL,
Valhdatek.	ely Elah Ofice 1919
The foregoing field notes of the survey of the South of Journship 38 South Range to West	If the Sall Lat
Base Ey Drendian, Gelah	
executed by Mayhen H	Valley
under his contract No. 24, dated January critically examined, and the necessary corrections and explanation of the description of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o	
surveys they describe, are hereby approved.	Edward Hunler
)	United States Surve

, has been correctly copied from the original notes on file in this c

United States Surveyor C

Tuck May 31. 100 1227

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B.E.S.

FIELD NOTES

RETRACEMENT AND REA

OF THE S	ACEMENT AND RE;	
PINE VALLEY	GUIDE MERIDIAN	
th	rough ·	
TOWNSHIPS NOS.	.38 SOUTH, Program,	
BETWEEN RANGE	CS NOS.15 AND 16 WEST,	
Of the SALT LAKE	BABE and Meridian,	
AS SUF	RVEYED BY	
Mayhew H.Dalley	, United States Deputy	Surveyor,
Under his Contract No. 224, da	ted January 23rd,	, <i>189</i> . ⁹
Survey commenced	August 24th,	, 1899
Survey completed		, 189 ⁹
Reorent the fire.	2,10,001 3.7289v	
Classic Land	2.341	~

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BOOK A-282

NAMES AND DUTIES OF ASSISTANTS.

Edward J. Higbee William Macfarlane, Chainman. Chainman

Chainman.

David Dix

. - _ .

Max W. Woodbury, Chainman.

Moundman.

Heber Dallev,

Axman.

Heber Dalley,

Flagman. Hillman Dalley,

Volume

R0282

B00K A-282

INDEX DIAGRAM.

Tou	nship		, Range.		
6 6		4	. 8	2	1
3	8	O	10	11	12
18	17	- 16	15	14	13
. 10	20	. 91	92	23	51
30	20	28	27	26	25
81	82	83	34	85	36

Meanders Page.....

BOOK A-282

Subscribed and sworn to before me this.

23

PRELIMINARY OATHS OF ASSISTANTS.

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; the we will report the true distances to all notable objects, and the true lengths of all live that we are the

measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey the Pine valley Guide Meridian, through Tps. 3., between Fs. 15 and 16 W., of the Salt Lake Base and Meridian, Utah

WE, Edward J. Higbee&Max W. Woodburynd David Dix&William Macfarl:

	Jenora 10 Dolley
SEAL (Cresimina Epima)	Motary Public.
Hober Dulley	nnd
WE, .V	perform the duties of moundmen in the establishmen retracements re-
do solemnly swear that we will well and truly	portorm the dittes of moundary in the control re-
Pine Valley Guide Meridian, through of the Salt Lake Base and Teridian	h Tps. 38 S., between Rs. 15 am 16 W.; on, Utah
	Heber Dalley Moundma
	JOUNT DICKLY Mountaine
·	, Moundma
and his later was the Ist	h. ,
Subscribed and sworn to before me this 15t	
day of August, 1899.	Senora la Galley
Py Condition Epica.	District Property
	Notary Public. 0
The Haber Delley	and
•	<i>a</i>
and other duties, according to instructions given	200 100 retracement a re-
the Pine Valley Guide Meridian,	hrough Tps. 38 S., betweeh Rs. 15 and
16 W., of the Salt hake Base and	erform the duties of axmen in the establishment of corn in the tothe best of our skill and ability, in the survey through Tps. 38 S., between Rs. 15 and Meridian, Utah.
	Bober Dalley Armo
	, design
Subscribed and sworn to before me this	<u>n.</u>
day of August , 1899	
REGISTERS BY C. Policica Explana	Lenora Q Daucy
Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billion Billio	Motary Public.
7,10	•
	y do solemnly swear that I will well and
	ructions given me, to the best of my skill and ability, in
survey of the Pine Valley Guide Me	ridian, through Tps. 38 S., bet. Rs. 15 and eridian, Utah.
16 W., 01 the Salt hake Base and h	Hoillman Dally, Flagm
Section 1	JUNEAU VICTORIA DE SOUSSI, Fragin
Subscribed and sworn to before me this 15t	<u>h.</u>)
day of August, 1899.	
William No Secretary My Convidence Expires	Service (Dalley
SEAL H With 20th, 1703	Notary Public.
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Retracement of E.bdy.of T.38 S., R.16 W. (Pine Valley Guide Meridian.)

Chains Retracement commenced August 24,1899, and executed with a W. and L.E.Gurley Light Mountain Solar Transit for description of which see notes of Survey of S.bdy. of T.42 S., R.14 W., Book A For complete solar test see Notes of Survey tof S.bdy.of this Tp., Book Z. By surveying the S. and W. bdys. of this Tp., I line that its exteriors will not close; therefore, I test the the courses and lengths of lines on E.bdy.thereof, as follows:-August 24,1899:I set off 37028' N.on the lat.arc; IIO 2 N.on the decl.arc; and, at IOh a.m., l.m.t., determine a true meridian with the solar, at the cor. of Tps.38 and 39 S., Rs. I5 and I6 W., as heretofore described in Notes of Survey of S.bdy.of this Tp. Thence I run. N., on Pine Valley Guide Meridian, retracing the line bet.secs.3I and 36. Ascend rapidly over S.E.slope of ridge covered with large trachyte boulders; through scattering pine and cedar timber, and dense sage, greasewood and service berry undergrowth. I5.00 Top of ascent about 125 ft.avove the Tp.cor., bears N.E. and S.W.; thence over top of ridge. Leave cedars and pines bears H.E. and S.W. 28.00 Re-enter scattering pines and cedars, bears S.E. and N. W. 31.50 Begin gradual descent over N.E. slope of ridges, bears S.W. and N.E. 40.24 Fall 2 lks.E. of the old I/4 sec.cor., which is a trachyte stone [I0xI0x6 ins., above ground, marked and wit-

Foot of gidges and trail, bears N.W. and S.E.; ascend gradually.

58.00 Begin ascent of S.slope of foot hills, bears E. and W.

Trail bears N.E. and S.W.

59.32

nessed as described by the Surveyor General.

66.50 Old road bears E.and W.Ascend more rapidly on S.E.slope.
68.37 Oreck about 4 lks.wide and I8 ins.deep with clear.

Retracement of E.bdy.of T.58 S., R.16 W. (Pine Valley Guide Merid

Chains. fresh water about 4 ins.deep, drains S.450 W.about 8.00 chs., thence on a winding course Westerly to Vance's reservoir at head of his farm in M.gentral part of sec. 36, and about 35.00 chs.dist from line. 80.20 The cor.of secs.25,30,31 and 36, which is a trachyte stone J2x12x8 ins.above ground, marked and witnessed as described by the Surveyor General. The course of this line is therefore due North. This.orm.is on Southerly slope of high ridge about, I50 ft.above the I/4 sec.cor. Land mountainous and broken ridges. Soil, clay, gravelly and stony; 4th.rate. Timber, scattering nut pine and cedars. Undergrowth, sage, greasewood and service berry, which with shrubbery and grasses in abundance afford good grazing. Mountainous land and dense undergrowth on 80.20 chs. From the cor. of secs. 25, 30, 31 and 36 on E.bdy. of Tp., as above described, I run N., retracing line bet. secs. 25 and 50. Ascend abruptly over broken ledges and large boulders on S. and S.W. slopes of .idges; through scattering pines and cedars, and dense oak and service berry undergrowth. .8.00· Top of abrupt ascent bears S.E.and N.W.; begin more. gradual ascent on S.W. slope of ridge. 33.00 Top of ascent about I:50 ft.above the sec.cor., bears N.10° E. and S.10° W.; descend rapidly over W.slope of ridges; timber increases in density... 39.90 Fall 2 lks.W.of the old I/4 sec.cor., which is a trachyte stone 12x6x5 ins.above ground, marked and witnessed as described by the Surveyor General. 44.00 Hollow at foot of descent about 50 ft. below the I/4 sec.cor., drains S.W.; ascend on S.E. slope of ridges. Ravine about I50 lks.wide and 50 ft.deep, drains S. 63.00

200 W.; ascend more rapidly on E.slope of ridges.
79.80 The old cor.of secs. 19,24,25, and 30, near top of divide, which is a granite stone IOxIOx4 instabove ground,

Retracement of E.bdy.of T.38 S., R.16 W. (Pine Valley Guide Meridian.)

Chains.

marked and witnessed as described by the Surveyor General, with this exception, viz: The bearing tree is II3 lks.dist.from the cor.instead of I25 lks.as given in notes furnished by the Surveyor General.

The course of this line is therefore due North, and the distance from the Tp.cor.agrees with the original survey.

Land mountainous and very rough and broken

Jand mountainous and very rough and broken.

Soil, clay and gravel covered with rocks and boulders;

4th.rate.

Timber, scattering pines and cedars on N. and S., and medium dense on central part.

Undergrowth, shrubbery and grasses in abundance affords good grazing.

Mountainous land and dense undergrowth on 79.80 chs.

August 24,1890:At this sec.cor., I set off IIO 0'N on the decl.arc; and, at Oh2' p.m., l.m.t., observe the sun on the meridian; the resulting lat.is 37029' N.

From the cor.of secs.19,24,25 and 50,above described, I run

N. on a blank line bet.secs.I9 and 24; at 40.00 chs.I find no trace of the old I/4 sec.cor.after diligent search; and at 80.00 chs., the cor.of secs.I3, I8, I9 and 24, which is a trachyte stone 24xI0x7 ins.properly marked, and witnessed with a mound of stone, bears 5.9°28' W.,3.04 chs.dist.; therefore, I continue my line N., find no part of the E.bdy.in alinement and distances defective. At 273.46 chs.fall 2.84 chs. W. of the old I/4 sec.cor.bet.secs.I and 6, which is a granite stone I0xI0x5 ins.above ground, marked and witnessed as described by the Surveyor Genéral; and at 3I3,46 chs., I make diligent search for the old cor. of Tps.37 and 38 S.,R.I6 W., but find no trace of same. Set temp.cor.of Tps.37 and 38 S.,R.I6 W. on Pine

Valley Guide Meridian.

August 24, 1899.

Retracement of E.bdy. of T. de S., R. 16 W. (Pine Valley Guide Merid) an

August 25, 1899:1 set off 37033 N. on the lat. Chains. arc; 10041 N.on the decl. arc; and, at 10h a.m., 1.m.t. defermine a true meridian with the solar, at the temporary cor. of Tps. 37 and 38 S., R. 16 W., established by me, on the Pine Valley Guide Meridian, thence I run H., on E. bdy. of sec. 36, in T. 37 S., R. 16 W.; and, at 41 20 chs., fall 183 lks. W. of the old 1/4 sec. cor., which is a trachyte stone I2x8x6 ins.above ground properly marked and witnessed with mound of stone; this distance being used in the re-establishing of the cor. of T.37 and 38 S., R.16 W... Thence from this I/4 sec.cor.on.E.bdy.of.sec.36, I 'run S.,0043 E.on a true line on E.bdy.of sec.36; this course determined by blank line. Difference bet.measurements of 40.60 chs. by two sets of chainmen, is 8 lks. ; position of middle point By. Ist. set, 40.64 chs., By 2nd.set, 40.56 chs.; the mean of which is Set a trachyte stone 30x15x8 ins.,23 ins.deep in a 40.60 mound of stone, for re-established cor. of Tps 37 and 38 S., R. 16 W., marked 38 S.on S.W., and 37, S., 16 W. on N.W.faces, with 6 notches on N., S. and W. edges, and raised a mound of stone 2 ft.base, I 1/2 ft.high, W. of cor. Pits impracticable. This cor.is in bed of creek, about 5 lks. W. of stream of water, which is about 10 1ks.wide and 4 ins.deep, and drains N. 700W. I continue my line S.0043 E., bethsecs. I and 6. Difference betimeasurements of 81.20 chs., by two sets of chainmen, is 18 lks.; position of middle point By Ist.set, 81/II chs., By 2nd.set, 81.29 chs.; the mean of which is The old 1/4 sec.cor.on E.bdy.of sec.1, heretofore de scribed. August 25, 1699: I set off 10039 30 H. of the decl arc; and, at Oh2 p.m., I.m.t., observe the sun on the meridian, at this 1/4 sec. cor. ; the resulting lat. is 37032 30 11

Avenst 25, 1899.

Mayhew H. Galley

U.S. Geputy Hungen

Resurvey of E.bdy.of T.38 S., R.IE W. (Pine Valley Guine Perician).

Chains.

3.00

I9.70

40.00

. Resurvey communeed August 25,1830, and excented with a W. and L.E. Gurley Light Mountain Solar Transit for description of which see Notes of Survey of S. bdy.of.T.42 S.,R.14 W.,Book A

For complete solar test see Notes of Survey of S.hdy.of this Tp., Book E

By retracing the E.bdy.of the Tp., I find the N.. 4 miles thereof defective in: courses and lengths of lines; and, as there are no subdivisional or Tp.lines depending thereon, I. resurvey this portion of the Pine Valley Guide Meridian, through, T.38 S., as follows:-

From the old cor.of secs. 19,24,25 and 30, heretofore

I run N., on Resurvey line bet. secs. ID and 24, on Pine Valley Guide Meridian. Ascend S.E.slope of ridge; through dense oak and ser-

described in retracement of E.bdy.of this Tp.,

Top of divide about 50 ft.above the sec.cor., bears N.600E.and S.600 Wa; descend over steep W.slore of

Trail bears, N.W. and S.E.

high ridges.

vice berry undergrowth.

25,80 Ravine at foot of spur of rid e about 1.00 ch.wicc and 50 ft.deep, drains W.; ascend rapidly on S.slope of spur.

37.00 Top of spur about 100 ft.above the ravine, falls rapidly to W.; descend over N.W. and W. slope of spur and ridges.

> Difference bet.measurements of 40.00 chs., by two sets of chainmen, is 8 lks.; position of middle point By Ist.set, 40.04 chs.,

By 2nd.set, 39.96 chs.; the mean of which is Set a trackyte stone I6xI0x6 ins., 12 ins. in the ground,

for re-established I/4 sec.cor., marked I/4 on V. face; and raised a mound of stone, 2 ft. base, I.I/2 ft. high, W. of cor. Pits impracticable...

Find no trace of the old 1/4 scc.cor.after dilight

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Resurvey of E.bdy.of T.38 S., R.16 W. (Pine Walley Guide Meridian.)

search. From the I/4 sec.cor., a small spring bears Chains. N.600 W. about IE.00 chs.dist. . . Traid bears M.E.and S.W. 4I.50 Ravine at foot of descent , about 150 ft. below the 62.00 I/4 sec.cor., about FO lks. wide and IO ft. deep, drains W.about 10.00 chs., thence S.W.; ascend S.E., E. and S. slopes of rocky ridges... Trail bears E. and W. €3,I0 E.foot of trachyte ledges about 50 ft.high, bears N. 7I.50 and S.. Difference bet.measurements of 80.00 chs.,by two sets of chainmen, is I4 lks.; position of midele point By Ist.set, 80.07 chs., By 2nd.set, 79.93 chs.; the mean of which is Set a trachyte stone IExI2x5 ins., IO ins.in the 80.00 ground, for cor.of secs. 13, 18, 19 and 24, marked with 3 notches on N. and S. edges; and raised a mound of stone 2 ft.base, I I/2 ft.high, W. of cor. Pits impracticable. The cor.is or Southerly slope of high ridge, which is very rough and rocky. I destroy all traces of the old cor.of secs. 13,18, 19 and 24, heretofore described in notes of retracement of this bdy., which bears S.9028' W., 3.04 chs.dist. Land mountainous and broken ridges. Soil, gravelly and stony; 4th. rate. Timber, scattering cedars and nut pine on the ridges E.of line; and on the ridges W.of line on N.10.00 chs. Undergrowth, grasses and shrubbery in abundance, which make good grazing... Mountainous land and dense undergrowth on 80.00 chs. August 25,1899. August 26,1899:I set off 37030' N.on the lat. arc:10°20'30" N.or the decl.arc; and, at 10h a.m., l.m. t., determine a true meridian with the solar, at the

cor.of secs. 13, 18, 19 and 24, established by me as above described; thence I run

Resurvey of E.bdy.of T.38 S., R. 16 W. (Pine Valley Guide Meridian.)

Chains. N.on resurvey line, bet.secs. I3 and I8, on Pine Valley Guide Meridian.

Ascend rapidly on S.and S.E.slope of rocky ridge; through medium dense cak and service berry brush.

Top of ridges about I50 ft.above the sec.cor., bears

II.35 Top of ridges about I50 ft.above the sec.cor., bears N.E. and S.W.; descend rapidly over. N.W. slope of high ridges.

I2.00 Trail bears E. and W. ;leave medium dense undergrowth and enter dense sage, oak and service berry brush...

Foot of descent about IOO ft.above the top of ridge, falls rapidly to N.W.; ascend on S.E. slope of ridge.

Difference bet.measurements of 40.00 chs., by two sets of chainmen, is IO lks.; position of middle point By Ist.set, 40.05 chs.,

By 2nd.set, 39.95 chs.; the mean of which is

40.00

50.00.

80.00

ground, for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone 2 ft.base, I I/2 ft.high, W. of cor. Pits impracticable.

From this point the old I/4 sec.cor., which is a lava stone I6xI0x8 ins., properly marked and witnessed, bears S.35 I/20 E., 3.68 chs.dist. I destroy all traces of the old cor.

Set a gray granite stone I5xI2x6 ins., I0 ins.in the

descent.

Top of ridge about 50 ft.above the I/4 sec.cor.,

bears N.E.and S.W.; descend rapidly over N.W.slope of ridges.

This I/4 sec.cor.is about 75 ft.above the foot of

Foot of descent about 50 ft.below the top of ridge, falls rapidly to N.W.; ascend rapidly on S.E.slope of ridge.

63.50 Top of spur of ridge about 75 ft.high, bears E.and W.;

descend on steep W.W.slope of spur.

71.90 Foot of descent about 60 ft.below the top, falls rapidly Southwesterly.; ascend S.E.slope of ridge.

Difference bet.measurements of 80.00 chs.by two sets of chainmen.is I8, lks.; position of middle point is

By Ist.set, 79.91 chs.,

By.2nd.set,80.09 chs.; the mean of which is Set a volcanic stone I5xI2x5 ins.,10 ins.in the ground Resurvey of E.bdy.of T.38 S., R.16 W. (Pine Valley Guide Meridian.)

Chains. for cor.of secs.7, I2, I3. and I8, marked with 4 notchesh on S. and 2 notches on W. edges; and raised a mound of stone 2 ft.base, I I/2 ft.high, W.of cor. Pits impracticable. This cor.is on S.E.slope of ridge about 75 ft.above foot of same. The old cor.of secs.7,12,13 and 18, which is a trachyte I5xI0xI0 ins., properly marked and witnessed with a mound of stone, bears \$.380200 E.,4.97 chs.dist. I destroy all traces of this old sec.cor. Land mountainous and broken ridges. Soil, Gravelly and stony; 4th. rate. No timber, except scattering cedars and pine on the ridges E.of line. Undergrowth, shrubbery and grasses in abundance afford good grazing. Mountainous land on 80.00 chs. N., on resurvey line bet. secs. 7 and I2, on Pine Valley Guide Meridian. Ascend on S.E.slope of ridge; through dense sage, oak and service berry undergrowth. Top of ridge about 50 ft.above the sec.cor., bears E. 8.00 and W.; descend rapidly over N.E. slope of ridges. Difference betimeasurements of 40.00, chs.by .two setsof chainmen, is I6 lks.; position of middle point is By Ist.sct, 39.92 chs., By 2nd.set, 40.08 chs.; the mean of which is Set a trachyte stone I8x8x6 ins., I2 ins.in the ground, 40.00 for I/4 sec.cor., marked I/4 on W.face; and raised a. mound of shone, 2 ft.base, I I/2 ft.high, W. of cor. Pits impracticable. The old I/4 sec.cor., which is a trachyte stone 24x24xIs ins., properly marked and witnessed with a mound of stone, bears 3.37° E.6.37 chs.distd., I destroy all traces of the old I/4 sec.cor. This new I/4 sec.cor is on N.E. slope of ridges about 150 ft. below top of ridge.

Resurvey of E.bdy.of T.38 S., R.16 W. (Pine Valley Guide Meridian.)

Chains. August 26,1899:At this 1/4 sec.cor., I set off 10018'

30 N.on the decl.arc; and, at Oh2m p.m., l.m.t., obcerve the nun on the meridian; the resulting lat is 37932 %.

58.75 Trail bearn N.W.and S.E.
74.40 Trail bears N.W.and S.E.

76.00 Wash at foot of descent about 100 ft.below the 1/4 nec.cor., about 10 ft.wide and 4 ft.deep, drains N.200 W.; ascend on N.W. slope of ridge.

Difference bet.measurements of 60.00 chs., by two sets of chairmen, is 22 lkr.; position of middle point

By Int.met,79.89 chm.,
By And.met,60.11 chm.; the mean of which is
Set a trackyte stone 15/10/8 thm .10 thm in th

Set a trachyte stone ISxIOx8 ins., IO ins., in the ground, for cor. of secs. I, 6, 7 and I2, marked with 5 notches on S. and I notch on N. edges; and raised a mound of stone, 2 ft. base, I 1/2 ft. high, W. of cor. Pits impracticable. The cor. is on steep N.W. slope of

From this cor., the old cor.of scor.I,6,7 and I2,
which is a trachyte stone I2x10x8 ins., properly
marked and withersed with a mound of stone, bears S. 24041 E.,6.37 chs.dist. I destroy all traces of

Land mountainous and broken.

Soil, gravelly and stony: 4th. rate.

thin old sec.cor.

ridge about 10 ft.above the wach.

00.00

No timber, except scattering cedars and pines on the high ridges F.of line.

Undergrowth of magr, oak and service herry, with shrub bery and grasses in abundance afford good grazing. Mountainous land on 80,00 chs.

R., on resurvey line bet.moos. I and G, on Pine Valley Guide Meridian.

Through dense oak, service borry and sage undergrowth rapidly accending on N.W. slope of ridge.

8.00 Top of ascent about 76 ft.above the sec.cor., bears E.and W.; thence along W.slope of ridge.

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Resurvey of E.bdy.of T.38 S., R.16 W. (Pine Valley Guide Meridian.)

Chains. Commence to descend on N.W.slope of ridge. 17.00 Difference bet.measurements of 40.00 chs.by two sets of chainmen, is I4 lks.; position of middle point By Ist.set, 40.07 chs., By 2nd.set, 39.93 chs.; the mean of which is Set a trachyte stone I6xI0x6 ins., II ins. in the 40.00 ground, for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W. of cor. Pits impracticable. The old I/4 sec.cor.heretofore described, bears S.230 32' E.,7.II chs.dist. I destroy all traces of this old I/4 sec.cor. The new I/4 sec.cor.is about IOO ft.below where descent begins on N.W.slope of ridge. Wash at foot of spur about 50 ft.below the I/4 sec. 52.10 cor., about 8 ft. wide and 4 ft. deep, drains N.W.; ascend S.W. slope of spur. Top of spur about 75 ft.high, bears S.E. and N.W.; 54.00 descend over N.E.slope. Trail bears N.70°W.and S.70° E. 62.40 Wash about 25 lks.wide and 4 ft.deep, drains N.W.; 62.50 ascend steep S.W.slope of spur. Top of spur of ridge about 60 ft.high, bears S.E. and 64.00 N.W.; descend over N.E. slope of spur. Trail at foot of spur, about 75 ft. below the top, 67.50 bears N.30° E.and S.30° W.; foot of spur bears N.W. and S.E.; gradual descent. Wash about IO lks.wide and 4 ft.deep, drains N.W. 69.IO Difference bet.measurements of 73.87 chs., by two.....; sets of chainmen, is I8 lks.; position of middle point By Ist.set, 73.78 chs., By 2nd.set, 73.96 chs.; the mean of which is Intersect N.bdy.of Tp.,S.85013' W., Course determined 73.87 by retracement thereof) hereafter reported), 2.34 chs. dist.from the cor.of Tps.37 am 38 S.,R.16 W.,as reestablished by me and described in Notes of Re-tracement of E.bdy.of this Tp. Set a yellow granite stone I8xI2x4 ins., I2 ins.in the ground, for North East cor. of Tp. 38 S., R. 16 W., marked

Resurvey of E.bdy.of T.38 S., R.16 W. (Pine Valley. Guide Meridian.)

38 S., I6 W., on S.W.face, with 6 notches on S. and W. Chains. edges; and raised a mound of stone, 2 ft.base, I I/2 ft high, S.W. of cor. Pits impracticable. I destroy the marks of the cor.of Tps.37 and 38 S., R.I6 W., formerly re-established, that pertain to Tp. 38 S., and re-establish same for S.E.cor.of Tp.37 S., R.16 W., only. I also destroy the temp. Tp.cor.previously set.

Land mountainous and broken ridges. Soil, gravelly and stony; 4th.rate.

No timber.

The ground is covered with dense undergrowth shrubbery and grasses, which afford good grazing.

Mountainous land on 73.87 chs.

August 26, 1899.

GENERAL DESCRIPTION:

For General Description see Notes of Survey of Subdivisions of this Tp., Book H.

August 26, 1899.

Mayhew H. Dalley
U.S. Deputy Surveyor.

BLANK

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

	by Mayhew H.Dalley	r
, United States Dep	uity Suprovon to and	
marking the lines and corners described in the foregoing uide Meridian, through Tps. 38 S., bet. Base and Meridian, Utah,	retracement&re- ag field notes of the survey of the Rs. I5 and I6 W., of the	measuring, and Pine Valle Salt Lake
showing the respective capacities in which they acted:		
Edward J. Higbee, Chainman.	• • • •	
David Dix , Chainman.	will in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state	, Chainman.
y distantinent,	William Macfarlane,	, Chainman.
	Heber Dalley,	, Moundman.
		Moundman.
	Heber Dalley,	Amman
······································		\dots , $Flagman$.
FINAL OATH OF	ASSISTANTS.	
We hereby certify that we assisted		
	retro United States Deputy Suppoyer	icing&re-
hose parts or portions of the Pine Valley Guid		.38 S., bet.
***************************************	,	
Base and meridian, State the foregoing field notes as having been surveyed by as been in all respects, to the best of our knowledge orner monuments established, according to the instruence of the state of the sta	of the Of Utah , which which im and under his direction; and the delief, well and faithfully sure the detions furnished by the United S	are represented hat said survey veyed, and the states Surveyor
Base and meridian, State the foregoing field notes as having been surveyed by as been in all respects, to the best of our knowledge orner monuments established, according to the instruence of the state of the sta	of the Of Utah , which which im and under his direction; and the delief, well and faithfully sure the detions furnished by the United S	are represented hat said survey veyed, and the states Surveyor
Base and meridian, State the foregoing field notes as having been surveyed by as been in all respects, to the best of our knowledge orner monuments established, according to the instruence of the state of the sta	of Utah , which him and under his direction; and t and belief, well and faithfully surections furnished by the United Standard Lower Pally	are represented hat said survey veyed, and the states Surveyor
Base and meridian, State 70-67 1 the foregoing field notes as having been surveyed by as been in all respects, to the best of our knowledge orner monuments established, according to the instruence of the stablished of the instruence of the stablished of the instruence of the stablished of the instruence of the stablished of the instruence of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stablished of the stab	of Utah which which which will and under his direction; and to and belief, well and faithfully surportions furnished by the United Start Down Dally alley	salt I.ake are represented hat said survey veyed, and the states Surveyor ., Chainman, Chainman, Moundman, Moundman, Axman.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

laynew R. Halley	United States Deputy Surveyor, do
solemnly swear that, in pursuance of a contract rec	eived from Jacob B.Blair
United States Surveyor General for	Utah , bearing date of the
23rd . day of January	Utah , bearing date of the , 189 , I have well, faithfully, and truly, in my own
remain marcon and in strict conformity with the i	instructions furnished by the United States Surveyor
General for Utah , the	Manual of Surveying Instructions, and the laws of the
United States, surveyed all those parts or portions	Manual of Surveying Instructions, and the laws of the the Pine Valley Guide Merind 16 %.
dian, through Tps. 38 S., bet. Rs. 15 at	nd 10 %.
MAN ATTACA	¥r
_	of the Salt Lake
State	Utah Liel in managantal in the
Buse and meridian, in the	of the Salt Lake Utah , which are represented in the me, and under my direction; and I do further solemnly
foregoing field notes as having been surveyed by 1	me, and under my direction; and I do further solemnly
swear that all the corners of said survey have been	n established and perpetuated in strict accordance with
the Manual of Surveying Instructions, and the spec	cial written instructions of the United States Surveyor
General for Utan and in the	he specific manner described in the field notes, and that
the foregoing are the original field notes of such's	urvey; and should any fraud be detected, I will suffer
the penalty of perjury under the provisions of an A	Act of Congress approved August 8, 1846.
·	Mayhew H Dalley
	United States Deputy Syrveyor.
٠,	V Simon Zianos Zopinis Sipisos
Subscribed by said Mayhew H.Dalley	, and sworn to before me)
this Alay of May 190	· · · · · · · · · · · · · · · · · · ·
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under his contract No. 22/, dated) correcce 23 , 1897, having bee
eritically examined, and the necessary correction	is and explanations made, the said field notes, and the
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	United States Surveyor C
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has been correct	tly copied from the original notes on file in this office.
	United States Surveyor General
4 - 255	Office mates may regor General

Tilla May 31, 190 4-679. Ō. BOOK A-282 , A.E.K Of the Wall, Lake Base and Meridian, AS SURVEYED BY alley, United States Deputy Surveyor, Inder his Contract No. 924, dated commenced. august 29 . . . φ' completed. 6---151 6.02.901

NAMES AND DUTIES OF ASSISTANTS.

Max & Woodlung	Chavisman
Edward & Vigle	Chainman
Dela Walley	Maindman
Warid Dix	Moundman
Deles Dalley	Cerman
Waxid Viz	Conan
William Macfarlane	· Hagmon

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Volume # R0282

BOOK A-282

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PRELIMINARY OATHS OF ASSISTANTS.

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do solemnly swear that we	will well and faithfully	execute	the duties of chai	nmen; that we	will level
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measuring, to the best of ou 	r skill and ability, and R. I6 W., and S. bo of T. 36 S., R. I'	in accords Iy of I 7 W. and	ince with instructi 36 S.,R. 17 S. bdy. of T.	ons given us, in W., and re 36 S., R. I	the survey racemen W.,of
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do solemnly swear that we	e will well and truly	perform	the duties of mor	undmen in the	racemen
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Subscribed and sworn to be	efore me this 15th.)	~		
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do solemnly swear that we	will well and truly per	rform the	duties of axmen i	n the establish re t	racemen
and other duties, according II. bdy. of T.38 S.R resurvey of E.bdy. Salt Lake Base and	g to instructions given I 6 W. and S.bd of T.36 S., R.17 Meridian, Utah.	us, to the y of T	đổi bđỷ ciế 1	36 S., R. I	6 W,, of
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perform the duties of flag retracement of N.1 etracement & Day of	man according to instruction of T.38 S., T.36 S., R.17 W.	uctions gi	ven me, to the bes	t of my skill an	d Rhility, i
alt hake Base and b	Meridian, Utah.	. We	lliam On	Λ.	• •
Subscribed and sworn to l	before me this <u>I5th</u>	·: {	4	^	
day of Augus	t, 189 9.	Ş	Senos	a le	Doll.
& SEAL (By Consisting Expires No. 1000, 1003			Notary	Public .

Retracement of N.bdy.of T.38 S., R.16 W.

Chains. Retracement commenced August 28,1899, and executed with a W. and L.E. Gurley Light Mountain Solar Transit, for description of which see Notes of Survey of S. bdy. of T. 42 S., R. I4 W., Book A

For complete solar test see notes of Survey of S. bdy.of this Tp., Book ∠.

Having heretofore retraced the E.bdy.of the Tp. and finding the N.4 miles thereof irregular in bearing and defective in measurement, I deem it advisable to test the lines on the N.bdy.before commencing the regular subdivisions of the Tp.

August 28, I899: I set off 37°33' N.on the lat.arc; 9°38'50N.on the decl.arc; and, at IOh a.m., l.m.t., de-

termine a true meridian with the solar, at the cor. of Tps. 37 and 38 S., Rs. I6 and I7 W., heretofore descri-

bed in Notes of Survey of the W.bdy.of this Tp.
Thence I run
E.,on retracement line bet.secs.6 and 3I.
Over low foot hills and broken ridges sloping N.and

N.W.

Fall I6 lks.N.of the old I/4 sec.cor., which is a quartzite stone I2x7x6 ins.above ground, marked and

40.50

55.00

81.53

witnessed as described by the Surveyor General.

A gulch about 60 lks.wide and 25 ft.deep,drains N.W.

which is a sandstone lixIOx5 ins.above ground, marked and witnessed as described by the Surveyor General.

The course of this line is, therefore, N-89044.

Fall 38 lks.S.of the old cor.of secs.5,6,3I and 32,

Land mountainous and broken ridges and foot hills. Soil, clay, sandy gravelly and stony; 3rd. and 4th. rate. Timber, scattering cedars and pine.

Undergrowth of sage, oaks and service berry brush, with shrubbery and grasses afford fair grazing.

Mountainous land on 81.53 chs.

August 28,1899:At this sec.cor., I set off 9036

30' N.on the decl.arc; and, at Ohlm p.m., l.m.t., observe the sun on the meridian; the resulting lat.is 37°33' N.

Retracement of N.bdy.of T.38 S., R.16 W.-Continued. From the cor. of secs. 5, 6, 31 and 32, on the N. bdy. Chains. of the Tp., heretofore described, I run. E., on retracement line bet.secs.5 and 32. Ascend over broken ridges having general slope to N.and N.W. Top of knoll about I50 ft.high. 26.00 Fall 2 lks.N.of the old 1/4 sec.cor., which is a sand-39.80 stone I8x4xI0 ins.above ground, marked and witnessed as described by the Surveyor General. Wash about 25 lks.wide and 6 ft.deep, drains N.W. 54.00 Fall 6 lks.N.of the old cor.of secs.4,5,32 and 33, 79.54 which is a sandstone I3x8x5 ins.above ground, marked and witnessed as described by the Surveyor General. The course of this line is, therefore, S. 89057' E. Land mountainous and broken ridges: Soil, clay, gravelly and stony; 2nd. 3rd. and 4th.rate. Timber, scattering cedars and pines on W.30.00 chs. Undergrowth of sage, oaks and service berry brush, shrubbery and grasses make good grazing. Mountainous land on 79.54. chs. From the cor.of secs.4,5,32 and .33, above de-6 211 727 1 1 7 2 61 scribed I run E., on retracement line bet.secs.4 and 33. Ascend over broken ridges, sloping N. and N.W. Gulch about 80:1ks.wide and 20:ft.deep,drains.N.; 9.50 ascend rapidly on N.W. and W. slope of high ridge. Top of ridge and divide, about 250 ft.high, bears N. 3I.60. and S.; the town of Hamblin bears: N.570 E.about 3 miles dist.; descend on E. and N.E. slope of divide. Fall I8 lks.S.of the old 1/4 sec.cor., which is a 40.00 sandstone IOxIOx8 ins.above ground, marked and witnessed as described by the Surveyor General. Fall 41 lks.S.of the old cor.of secs., 3, 4, 33 and 34, 80.IO which is a stationery sandstone 48x48x24 ins.above ground, marked and witnessed as described, by the Surveyor General, on E. slope of high ridges, about 150 ft.

below the top of divide.

Retracement of N.bdy.of T.38 S., R.16 W.-Continued.

Chains. The course of this line is therefore, N. 899.42 E. Land mountainous and broken ridges. Soil, sandy and stony; 3rd and 4th rate of a continuous No timber, except scattering cedars and pines on E. 50.00 chs. Undergrowth of sage, oak and service berry, with shrub bery and grasses afford good grazing. Mountainous land on 80.10 chs. August 28,1899. Little Brown Brown Brown From the cor. of secs. 3, 4, 33 and 34, above described E.on retracement line bet.secs.3 and 34.01 or 1 Descend over E.slope of broken riages , and foot hills. 31.50 Telegraph line running from St.George to Hebron and Panaca, bears S.E. and N.W.; descend gradually over E. slope of foot hills. ... Fall 4 lks.S.of the old 1/4.sec.cor., which is a gran-40.24 ite stone I0xI0x4 ins.above ground, marked, and witnessed as described by the Surveyor General. 80.44 Fall 10 lks. S.of the old cor.of secs.243,34 and 35, which is a granite stone I8x6x6 ins.above ground, marked and witnessed as described by the Surveyor General. The course of this line is, therefore, N.890 and the second i. Land mountainous and broken ridges and foot hills. Soil, stony; gravelly and clay; 2nd., 3rd. and 4th.rate. No timber. Undergrowth, medium dense sage and service berry brush and scattering oaks, which with shrubbery and grasses afford good grazing. Mountainous land on 80,44 chs. Fig. 50 Caron in the

9017' N.on the decl.arc; and, at 10h A., m.l.m.t., determine a true meridian with the solar, at the cor.of

August: 29, 1899: I. set: off 37033! N.on, the lat.arc;

contract the second of the second

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Retracement of N.bdy. of T. 38 S., R. 16 W .- Continued.

secs.2,3,34 and 35, already described; thence I run Chains. E. retracing line bet. secs. 2 and 35 in the secs. 2 Descend over E. and S.E. slope of foot holls, and broken ridges, with course of drainage. Northeastely and N.

- 4.50 Road from St. George to Modena, bears 3.300 W. and N. Commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission o
- Trail bears N.300 W.and S.300 E. 4.65 Wash at foot of descent about 50 ft.below the sec.com. 7.50

about 25 lks.wide and 4 ft.deep, drains N.100 E.; ascend over W.slope of low ridges.

- I6.50 Top of ascent of ridge about 75 ft.above the wash, bears N. and S.: thence over low broken ridges.
- Wash about IO lks.wide and 2 ft.deep, drains N. 250 E. 27.00 The old I/4 sec.cor.on line, which is a granite stone 40.42

1: " 12x5x6; ins.above; ground; marked; and witnessed as described by the Surveyor General. The many and

Wash 30 lks.wide and 5 ft.deep, drains N. 150 E.

41,00

80.71

Commence to descend on E.and N.E.slope of low ridges, 48.00 bears S. Bland N. War, And the and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of t

Trail bears: N. and S.77) . W. E. W. P. C. Communication 65.65 66.00 Wash at E.foot of ridges about 50 ft.below, the top

about 15. lks.wide and 3 ftmdeep, drains N. 800 E. along

the foot hills, and at about 75 lks.dist.turns N.300 W., running along the foot of ridges. A small spring -

about 15.00 chs.S.E., drains into this wash. Ascend

along the S.W.and S.slope of ridges. Wash about 15 lks.wide and 3 ft.deep, drains N.700 W. 70.20

Fall II lks.S.of the old cort of secs.I,2,35 and 36, which is a red sandstone 20x5x5 ins.above ground,

marked and witnessed as described by the Surveyor

Land mountainous, and broken ridges. Here to be

General. The course of this line is therefore, N.

Soil, clay and gravelly; 3rd.rate.

Undergrowth, medium dense sage and service berry brush, with shrubbery and grasses in sufficient quantity to make fair grazing. The Transfer

Mountainous land on 80.71 chs.

Retracement of .N.bdy.of T.38 S., R.16 W.-Continued.

5.80

40.58

Chains. August 29,1899:At this cor. of secs. I, 2, 35 and 36, I set off 9015' N.on the decl.arc; and, at Ohlm p.m., 1.m.t., observe the sun on the meridian; the resulting lat.is 370 33 '"N".

> From the cor.of secs.I,2,35 and 36,above described I run E.on retracement line bet.secs. I and 36.

Ascend gradually along S. and S.E. slope of ridges. Wash 8 ft.wide and 4 ft.deep, drains S.200 W. about

I5.00 chs.; thence N.W.

Top of ascent about 75 ft.above the sec.cor., bears 24.00 N.E. and S.W.; descend over S.E. slope into gulch.

28.03 Trail bears N.700 E.and S.700 W. 35.25 Wash in bottom of gulch about IOO ft.below top of

ascent about 10 ft. wide and 6 ft.deep, drains N. 400

W. about I.00 ch., thence N. IO E.; ascend rapidly on N.W. and W. slope of ridge.

The old I/4 sec.cor., which is a surface granite rock

24x20x18 ins.above ground, marked and witnessed as described by the Surveyor General.

Ruins of Canfield's cabin bears N.3045' W., about 10.00 chs.dist.; and traces of an old field bears N.

of cabin.

From this I/4 sec.cor., I continue E.on blank line, knowing from a test line previously run that the course of this I/2 mile will be, materially changed ; at 78.11 chs., fall 3.13 chs. S. of the N.E. cor. of T.38 S., R. 16 W., established by me as heretofore described in Notes of Resurvey of E.bdy.of T.38 S., R.16 W. (Pine Valley Guide Meridian.), Book / ; and at 80.44 chs.,fall 3.32 chs.S.of the re-established cor.of Tps.37 and 38 S.,R.I6 W., as remarked for S.E.

cor. of T.37 S., R.16 W., only, and heretofore described in Notes of Retracement of the E.bdy.of T.38 S.,

The course of this last I/2 mile is, therefore, N.850 I3 E. I return to the I/4 sec.cor., bet.secs. J and 36

R.16 W. (Pine Valley Guide Meridian.), Book F.

and continue measurements therefrom, running

80.39

80.58

Retracement of N.bdy.of 38 S., R. I6 W.-Continued

Chains. N.85°I3' E.on a true line.

63.50 Ravine about 70 lks.wide and 20 ft.deep,drains N.

Top of spur of ridge about 75 ft.above the I/4 sec.

cor., bears N.70°W.and S.70°E.; descend over N.E.slope of spur.

74.50 Foot of spur about 75 ft.below the top, bears N.600 W.and S.600E.; trail bears N.300W.and S.300E.; descend more gradually.

more gradually.

76.50 Wash about 25 lks.wide and 8 ft.deep,drains N.300W.

78.10 The N.E.cor.of T.38 S.,R.I6 W.,above described.

78.40 Descend over bank about IO ft.high into creek bot-

Descend over bank about IO ft.high into creek bottom, bears S.80°E. and N.80°W.; thence along thecreek bottom. Hamblin creek, clear fresh water, rocky bottom, medium

current, about IO lks.wide and 4 ins.deep, drains N. 70° W. The cor.of Tps.37 and 38 S.,R.I6 W.,remarked for

S.E.cor.of T.37 S., R.I6 W., as hereforore described.

Land mountainous and broken ridges.

Soil, gravelly and stony, clay and sandy; 4th.3rd.and 2nd.rate.

Dense sage and oak undergrowth with shrubbery and grasses afford fair grazing.

Mountainous land on 74.50 chs.

August 29,1899.

GENERAL DESCRIPTION:

For General Description see Notes of Survey of Subdivisions of T.38 S., R.16 W., Book # .

August 29,1899.

No timber.

Mayhew H. Dalley
U.S. Deputy Surveyor.

Retracement of N.bdy.of T.38 S., R.16 W.)-Continued.

• ·		BOU	UNDARIES O	F T.38	S.,R.I6	w.	•
		Latitudes					
ne Desig	nated.	True Bear-	Distance	1		Depart	ures,
S Ban			Chs.	Chs.	Chs.	Chs.	Chs.
\s.Bdy .T.388.	R.I6W.	West	480.80				480.80
W.Bdy .1.385.	R.I6W.	North	470.40	470.40			
N.bdy:		-					3
T.38 S.	,R.16 W						3
		N.89044'E.	81.53	.38		81.53	
	-	S.89057'E.	79.54/	.06	-	79.54	
		N.89042'E.	80.10,	.41		80.10	
		N.89056'E.	80.44 /	.ïo	-	80.44	
		N:89055'E.	80.71	.II,		80.71	
		East.	40.58			40.58	
		N.85013'E.	37.66	3.13	1	37.53	
E.bdy.T R.I6 W. Valley Meridia	Pine (South.	473.87 /		4 7 3.87	,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	Conver	gen cy		-		.55	
	Totals			474.59	473.87	480.98	480.80
	Error	in lat.		473.87 .72			1
	Error	in dep.		<u> </u>		480.80 18	1

August 29, 1899.

Mayhew H. Dalley U.S. Deputy Surveyor.

BLANK

PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by	
, United States Deputy Surveyor, to assist in 1	running, measuring, and

narking the lines and corners described in the foregoing field notes of the survey nowing the respective capacities in which they acted:	***************************************
6-3651	Chainman
К Ж	, Chainman,
0 -1×	
.][[.	, Moundman.
from land	
1. [of	, Axman.
1 10 N	, Arman.
Jrv. 1	, Flagman.
FINAL OATH OF ASSISTANTS.	
We hereby certify that we assisted	
	rveyor, in surveying all
ose parts or portions of the	
the foregoing field notes as hering here.	, which are represented
the foregoing field notes as having been surveyed by him and under his direction been in all respects, to the best of our knowledge and belief, well and faithf	i; and that said survey
ner monuments established, according to the instructions furnished by the U	Inited States Surveyor
neral for	·
· Till	, Chainman.
1. 16	
K - '\J	, Chainman.
	Moundman.
J. Jol	, Moundman,
Midali)	, Axman.
ptrofa,	
	, Flagman.
scribed and sworn to before me this	
day of, 189	
OCCOCC O SEAL O	-
OCCOOO	**

240 OK!

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Marker O Celley United States Deputy Surveyo
solemnly swear that in pursuance of a contract-received from
United States Surveyor General for, bearing date o
day of
proper person, and in strict conformity with the instructions furnished by the United States Survey
General for
United States, surveyed all those parts or portions of the Anth Barned
Lowershif 38 South Houng to Frost
Charles of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the
of the Pall Lan.
Base 9 meridian, in the State of Estate, which are represented in
foregoing field notes as having been surveyed by me, and under my direction; and I do further sole
swear that all the corners of said survey have been established and perpetuated in strict accordance
the Manual of Surveying Instructions, and the special written instructions of the United States Su.
General for and in the specific manner described in the field notes, and
the foregoing are the original field notes of such survey; and should any fraud be detected, I will
the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.
Mayhenr H. Dallon, United States Deputy Su.
United States Deputy Su.
Mil Sul Sul sand
Subscribed by said Afficience Walley and sworn to before me
this 3/1 day of May 1961, 189
Denni Huderla
sossos All la la la la la la la la la la la la l
SEAL Seery Leneral for Class
APPROVAL.
OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Will for the fall of the interior
an ascerte de an aprili-
The foregoing field notes of the survey of the Hart Breen day
Troughel & South Range 16 West of the Sall alla
Base & Dreideay Gelate
,, , , , , , , , , , , , , , , , , , ,
(M) P (A) 00
executed by Alley
under his contract No. 224, dated January 33, 1899, having
critically examined, and the necessary corrections and explanations made, the said field notes, and extractions made, the said field notes, and the necessary corrections and explanations made, the said field notes, and the necessary corrections and explanations made, the said field notes, and the necessary corrections and explanations made, the said field notes, and the necessary corrections are explanations made, the said field notes, and the necessary corrections are explanations made, the said field notes, and the necessary corrections are explanations made, the said field notes, and the necessary corrections are explanations made, the said field notes, and the necessary corrections are explanations made, the said field notes, and the necessary corrections are explanations and the necessary corrections are explanations.
surveys they describe, are hereby approved.
United States Surveyor
Onnea sarveyo.
I certify that the foregoing transcript of the field notes of the above-described surveys in
has been correctly copied from the original notes on file in this of

₩. B00K A-282 FIELD NOTES OF THE SURVEY OF THE Vulderioins Township 38 South Though 16 West **************** of the Sals Cake Base acc Meridian, AS SURVEYED BY Pagfine It, Occlery, United States Deputy Surveyor, Under his Contract No. 2211., dated (2000, 2000), 1899 Surrey commenced Courses 30 Survey completed Lefslerales 16th , 1899 Ouls-night 56-17-48 1 14-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11-45 11

NAMES AND DUTIES OF ASSISTANTS.

α			
Max W. Hondlung		Cha-	im
Educad Diglie		cha	imai
Dela Dalley		an	den-
David D:		Ann	ndm, n
Deles Dalley		Clos	nan
Dand Dix		Ogo	- /
William Macfarlane	<u>/</u>	Flag	2 .

B00K A-282

INDEX DIAGRAM.

Township		********	Range	• • • • • • • • • • • • • • • • • • • •	
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36	11	14	15	16	13
19	±0	31	tt.	es	21
ŝó	27	24	£T	±0	25
£1	23	83	14	#1	20

Meanders Page.....

WE, Max W. Woodbury and

PRELIMINARY OATHS OF ASSISTANTS.

Edward J.Higbee

	VV E,
	do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level
	chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; 4
	we will report the true distances to all notable objects, and the true lengths of all lines that we assist
	measuring, to the best of our skill and ability, and in accordance with instructions given us in the surve the Subdivisions of T.38 S., R.16 W.; T.36 S., R.17 W.; and T.36 S., R.16 S.
	the Subdivisions of T.38 S., R.16 W.; 1.36 S., R.17 W., and W. of the Salt Lake Base and Meridian, Utah.
	00 - 01 - 01
	May It Hoodbury, Chain.
	Edward J. Highel, Chainm
	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
,	Subscribed and sworn to before me this 15th.
	day of August , 1899.
	Lewon / Sund
	My Commission Expires SEAL Harch 20th, 1903 Hotary Public.
	March 20th, 1903 Motary Public.
	WE, Heber Dalley and David Dix
	do solemnly swear that we will well and truly perform the duties of moundmen in the establish.
	do solemnly swear that we will well and brury perform the duties of modulation in the surve
	of corners, according to the instructions given us, to the best of our skill and ability, in the surve the Subdivisions of T.38 S., R.I6 W.; T.36 S., R.I7 W.; and T.36 S., R.I W. of the Salt Lake Base and Meridian, Utah.
	W.of the Salt Lake Base and Meridian, Utah.
	Heber Dally, Mound.
	Loavid Loix, Mound.
	T5th
	Subscribed and sworn to before me this
	day of August, 189 9.
	My Commission Expires
	Morel 20th, 1903 Notary Public,
	$W_{E,}$ Heber Dalley and David Dix
	do solemnly swear that we will well and truly perform the duties of axmen in the establishment of cc.
	and other duties, according to instructions given us, to the best of our skill and ability in the survey the Subdivisions of T.38 S., R.16 W.; T.36 S., R.17 W.; and T.36 S., R.1
	W of the Salt Lake Base and Meridian, Utah.
	37 . P . D . D
	file Dalley, And
	David Dire
	Subscribed and sworn to before me this
	day of August, 1899.
	Slivera y Sall
	My Containion Expires Mirch 20th, 1993 Notary Publ
	, SECURIOR MICHEL LOCKY 1000
	William Macfarlane , do solemnly swear that I will well and
	perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the Subdivisions of T.38 S., R.16 W.; T.36 S., R.17 W.; and T.3
	the Subdivisions of T.38 S., R.16 W.; T.36 S., R.17 W., and T.5 survey of S., R.16 W., of the Salt Lake Base and Meridian, Utah.
	survey of S., R. 10 W., 101 the Salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard base and in the salt hard ba
	William maefarlane, Flay
	$^{\prime}$
	Subscribed and sworn to before me this 15th.
	day of August, 1899.
	My Commission Expires Service Date:
	SEAL 11. rch 1903. Notary Public.
	TO OUL V I WILLOW

Subdivisions of T.38 S., R.16 W.

Survey commonced August 30,1899, and executed with Chains. a W. and L.E. Gurley Light Mountain solar Transit, for description of which see notes of Survey of S.bdy.of T.42 S., R.14 W., Book A For complete solar test see Notes of Survey of S. bdy.of this Tp., Book E.. I commence at the cor.of secs.1,2,35, and 36, on the S.bdy.of the Tp., which I established Aug. 19, 1899. Thence I run N.00 I' W., bet. secs. 35 and 36. Gradually ascend through medium dense cedar and nut pine timber. I6.00 Leave cedars and pines and enter dense sage undergrowth bears E. and 20.00 Road to Vance's Ranche running N.200 E., bears E. about 2.00 chs.from line. 26.50 Regin ascent of S.W.slope of high ridge, bears S.E. and N.W.; and leave dense sage undergrowth. 31.00 Enter stattering ced are and nut pine timber, bears S.E.and N.W. Enter dense pine and cedar timber, and leave scattering 38.00 cedars am pines, bears E. and W. 40,00 Set a white sandstone IbxI4x6 ins., IO ins.in the ground, for I/4 sec. cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W. of Pits impracticable. Afterwards marked bearing trees as follows: A nut pine 8 ins.diam., bears N.52030'.E.,27 lks.dist., marked I/4 S.,36,B.T. A cedar I2 ins.diam., bears S.74030' W., I6 lks.dist., marked I/4 S.35, B.T. The cor. is on S.W. slope of ridge about 100 ft. above the the sec.cor. 53.20 Trail bears. E. and N. 850 W.

Begir ascent of S.E. slope of upper ridge bears N.E. and

Vance's cabin with orchard and fenced field of about

60.00

65.00

and S.W.

 إ	Thains	15 acres in narrow valley, bears S.810 E.ahout 42.00 ch
	77.50	Top of spur of ridge about 300 ft.high, bears S.W. and
-	77.50	N.E.; descend over N.W.slope of spur
	00.00	Set a gray granite stone 24x12x8ins. I8 ins.in the
,	80.00	ground for cor.of secs.25,26,35 and 36, marked with
		l notch on S.and E.edges; from which
		A nut pine 8 ins.diam., bears N.42°W., 46 lks.dist.,
		marked
		T.38 S.,R.16 W.,S.26,B.T.
		A cedar 16 ins.diam., bears N.360 E.,99 lks.dist.,
		marked
		T.38 S.,R.16 W.,S.25,B.T.
		A cedar I2 ins.diam., bears S.3045! W.,83 lks.dist.,
		marked
		T.38 S.,R.16 W.,S.35,B.T.
		A cedar I2 ins.diam., bears S.340 E., 78 lks.dist.,
		marked
		T.38 S., R.16 W., S.36, B.T.
		Land mountainous and broken;
	·	Soil, sandy, clay and stony; 3rd. and 4th.rate.
		Timber, dense and scattering pines and cedars; under-
		1
		growth; sage and greasewood.
		Fair grazing.
		Mountainous land on 80.00 chs.
		E.on a random line bet.secs.25 and 36.
	40.00	Set temp.I/4 sec.cor.
	80.16	Intersect E.bdy.of Tp.(Pine Valley Guide Heridian),
		28 lks.S.of the cor.of secs.25,30,3I and 36, hereto-
		described in notes of retracement of this bdy.
		Book. F.
		Thence I run
		S.89°48' W.on a true line bet.secs.25 and 36.
	,	Descend rapidly over rocky S.W.slope of ridge; through
		medium dense cedar and pine timber.
	10.00	Bottom of hollow at foot of ridges about 100 ft.below
		the sec.cor., drains S.; trail in hollow follows course
	•	•

Chains. of hollows.; ascend on S.E.slope of spur of ridge. Top of spur about 50 ft.high, bears N. and S.; descend I6.50 over S.W. slope of spur. 33.00 Wash at foot of descent about 6 ft. wide and 4 ft. deep, drains S.300 W.; ascend. 38.00 Top, of spur on S. slope of ridge about 50 ft.high, bears N. and S.; descend. 40.08 Set a white limestone I5xI0x6 ins., I0 ins.in the ground, for I/4 sec.cor., marked I/4 on N.face; from which A nut pine 8 ins.diam., bears S.61030' E., 24 lks.dist., marked I/4 S.36,B.T. A nut pine 8 ins.diam., bears N.20030' W., I5 lks.dist., marked I/4.S.25,B.T. William Vance's house, farm orchard and corralls adjoining same .with small reservoir on E., bears South about 22.00 chs. 41.05 Trail bears N.300 W.and S.300 E. 4I.60 Wash at fost of descent about 25 ft.below the I/4sec.cor., IO ft. wide and 4 ft. deep, drains S. 300 E.; ascend over broken spurs and ridges on S.E., and g. slopes of high mountain. 78.00 Top of spur of main ridge about 250 ft.below the I/4 sec.cor., bears S.400 W. and N.400 E.; descend over N.W.slope. 80.16 The cor.of secs.25,26,35 and 36, about 50 ft.below top of ridge. . Land mountainous and broken. Scil, sandy, clay and stony; 4th. rate. About I5, acres sandy and clay soils in N.1/2 of sec.36, suitable for cultivation; 2nd.rate. Timber, medium dense and scattering nut pine and cedars; undergrowth, scattering sage, greasewood and service herry, with very few oaks in Eastern part. Undergrowth, shrubbery, and grasses afford good graz-Mountainous land on 80.16 chs.

August 30,1899:At this sec.cor., I set off 8

DUIN nau

Subdivisions of T.38 S., R.16 W.-Continued.

Chains. N.on the decl.arc; and, at 12h M., l.m.t., observe the sun on the meridian; the resulting lat is 37028'36"N. N.001' W., bet.secs.25 and 26, gradually descending over N.W. and .W. slopes of spur of ridge. Bottom of hollow about fo ft.below the sec.cor., 4.00 drains W.; ascend over W. and S.W. slope of high ridge. Top of ridge on summit of mountain about 150 ft. 25.00. above the sec.cor., bears E. and W.; descend rapidly over N.slope of high mountain. Set a granite stone I2xI0x6 ins., 8 ins.in the ground, 40.00 for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone 2 ft.base, I I/2 ft.high, W.of cor. Pits impracticable. Corner is on M. slope of mountain about 150 ft.below the top. . Ravine about 70 ft.wide and 50 ft.deep, drains N.300 W. 46.30 Wash at foot of descent, about I50 ft. below. the I/474.80 sec.com., about IO ft. wide and 4 ft. deep, drains S. 300 W.; ascend from wash. Trail.hears S.300 W.and N.300 E. 75.55 Set a quartzite stone 18x10x6 Ths., 12 ins.in the 00,08 ground, for cor. of secs. 23, 24, 25 and 26, marked with. 2 notches on S. and I notch on E. edges; and raised a mound of stone, 2 ft .base, I I/2 ft.high, W.of.cor., afterwards marked bearing trees as follows: A nut pine I4 ins.diam., bears N.I5 $3/4^{\circ}$ W.82 lks. dist., marked T.38 S.,R.16 W.,S.23,B.T. A cedar IO ins.diam., bears N.5I 3/40E.,43 lks.dist., marked T.38 S.,R.16 W.,S.24,B.T.

A cedar 24 ins.diam., bears S.88 $I/2^{\circ}W$., I3 lks.dist., marked

T.38 S.,R.16 W.,S.26,B.T.

A nut pine,8 ins.diam., bears S.55 3/4°E.,5I lks.dist. marked

T.38 S., R.16 W., S.25, B.T.

Subdivisions of T.38 S., R.16 W.-Continued. Chains. Land mountainous. Soil, gravelly and stony; 3rd. and 4th.rate. Timber, scattering nut pine and cedars. Undergrowth of sage, service berry and iron wood, with shrubbery and grasses afford good grazing. Mountainous land on 80.00 chs. August 30, 1899: I set off 37029' N.on the lat.arc; 8050 30 N.on the decl.arc; and, at 4hp.m., l.m.t., determine a true meridian with the solar, at the cor. of secs. 23,24,25 and 26, heretofore described. Thence I run N.890 48 E.on a random line bet.secs.24 and 25. Set temp. I/4 sec. cor. 40.00 Intersect E.bdy.of Tp.(Pine Valley Guide Meridian.), 79.98 32 lks.N. of the old cor. of secs. 19,24,25 and 30, heretofore described in Notes of Retracement of this boundary. Thence I run N.89058 W.on a true line bet.secs.24 and 25. Ascend over E.and N.E.slope of ridge. II.00 Top of rocky ridge about 75 ft.above the sec.cor., bears N.W. and S.E.; descend rapidly over W. and N.W. slope of ridges. Set a volcanic stone 24xI2xI0 ins., I8 ins.in the 39.99 ground, for I/4 sec.cor., marked I/4 on N. face; and raised a mound of stone 2 ft.base, I 1/2 ft.high, N. of cor. Pits impracticable. Tⁿe cor.is on N.W.slope of ridge, about I50 ft.below 49.I8 Ravine about I50 lks.wide and 50 ft.deep, drains N.W. 77.28 Wash at foot of ridges about I50 ft.below the I/4 sec.cor., about 10 ft. wide and 3 ft. deep, drains S. 600W.; ascend from ravine.

79.98 The cor.of secs.23,24,25 and 26,about 50 ft.above Wash.

Land mountainous and very rough.

Trail bears N.200 E. and S.200W.

77.33

	hains.	Soil, gravelly and stony; 4th.rate.
Ī		Timber, scattering pine and cedars.
-		Undergrowth, Dense oak and service berry on E.50.chs.;
		medium dense on W.29.98 chs.
		Undergrowth, shrubbery and grasses afford good graz-
		ing.
		Mountainous land on 79.98 chs.
Ì		. August 30, 1899.
	,	
İ	•	
		August 31,1899:I set off 37029' N.on the lat.arc,;
	•	8035' N.on the decl.arc; and, at 9H a.m., l.m.t., deter-
		mine a true meridian with the solar, at the cor. of
		sec.23,24,25 and 26; already described; thence I run
		N.001'W.bet.secs.23' and 24.
		Ascend over S.E.slope of ridges.
	7.00	Top of ridge about 175 ft.high, bears S.200W.and N
	. 1	20°E.; descend.
	9.00	Foot of ridge about 50 ft.below the top, bears E.andW
		Ascend S.slope of ridge.
	15.00	Top pf spur ,about 200 ft.high, bears N. and S.; ascend
		gradually.
	25.00	Top of ascent, about 25 ft. above top of spur, bears E.
	•	and W.; descend.
	29.00	Foot of ridge about 50 ft.below the top of ascent,
		bears E. and W.; ascend S. slope of ridge.
	35.00	Top of ridge covered with porphyry boulders, about
		200 ft.high, bears S.E. and N.W.; descend on N.E. slope
		of ridge.
	40.00	Set a granite stone I8xI2x5 ins., I2 ins.in the groun
		for I/4 sec.cor., marked I/4 on W.face; and raised a
		mound of stone, 2 ft.base, I 1/2 ft.high, W.of cor.
		Pits impracticable. The cor.is on N.E.slope of ridge
		about 50 ft.below the top, and about 200 ft. above the
		sec.cor.
	43.00	Ravine at foot of ridges, about 100 ft. below top of
	-20,00	ridge, about I50 lks.wide and 25 ft.deep, drains S.E.;
		ascend on S.E. slope of ridge.
	90 00	Top of ridge about 350 ft.high, bears E. and W.
***************************************	80.00	Tob of lifte angue one to the beats pears and

Chains. Set a gray granite stone 20x12x6 ins.,15 ins.in the ground, for cor. of secs. 13, 14,23 and 24, marked with 3 notches on S. and I notch on E. edges; and raised a mound of stone, 2 ft.base, I 1/2 ft.high, W.of cor. Pits impracticable. Land mountainous and broken. Soil, gravelly and stony; 4th.rate. Timber, medium dense nut pine and cedars on Ist. I5.00 chs.; scattering pines and cedars on N.65.00 chs. Undergrowth, greasewood, oak, sage, with shrubbery and. grasses, which afford fair grazing. Mountainous land on 80.00 chs. S.89058 E.on a random line bet.secs. I3 and 24. 40.00 Set temp.I/4 sec.cor. Intersect E.bdy.of Tp.(Pine. Valley# Guide Meridian.); 79.94 30 lks.N.of the cor.of secs. 13, 18, 19 and 24, re-estab lished in resurvey of E.bdy.of.this.Tp., heretofore... described in Notes thereof. N.89045'W.on a true line bet.secs.I3 and 24. Ascend abruptly over E. and S.E. slope of rocky ridge. 3.00 Top of rocky spur of ridge about 125 ft.above the sec.cor., bears: N. andd S.; thence along the S., S.W. S.E., and (S. slopes of high ridge or divide. 39.97 Set a gray granite stone I2xI0x6 ins.,8 ins.in the ground, for I/4 sec. cor., marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I 1/2 ft.high, N. N. of cor. Pits impracticable. : . Ravine about 3.00 wide and 100 ft.deep, drains S.400W 50,00 The cor. of secs. 13, 14, 23 and 24. 79.94 Land mountainous and very rough. Soil, gravelly and stony; 4th. rate. No timber, except very few scattering cedars and nut pine. The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of Dense loak and service berry undergrowth with shrub-

bery and grasses afford good grazing.
Mountainous land on 79.94 chs.

	. Other transfer of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second
Chains	. August 31,1899:At this cor.of secs.13,14,23 and 24,
	I set off 8032 30 N.on the decl.arc; and, at 12h M.,
	1.m.t., observe the sun on the meridian; the resulting
•	lat.is 37035'40" N.
£	
\$	
ŧ	N.001' W.bet.secs.I3 and I4.
	Descend over N.and N.E.slope of high ridge
21.00	
4	about 8 ft.wide and 3 ft.deep, drains N.W.; ascend.
40.00	
	for I/4 sec.cor., marked I/4 on W.face; and raised a
1	mound of stone, 2 ft.base, I I/2 ft.high, W.of cor.
!	Pits impracticable.
42.0	
	bears E.and W.; descend on N.W. slope of spur.
55.50	0
58.1	
67.3	
69.9	
,	with clear water, about 3 ins.deep, drains N.W.; heads
ŧ	at Burgess spring S.E.about 4.00 chs.from line.
73.5	
77.6	
1	
~ 80 .0	
:	ground, for cor.of secs.II, I2, I3 and I4, marked with
4	4 notches on S.and 2 notches on E.edges; and raised a mound of stone, 2 ft.base, I.I/2 ft.high, W.of cor.
	Pits impracticable.
	This cor.is about 350 ft.below the sec.cor.on top of
	ridge I mile South.
	Land mountainous and broken ridges.
	Soil, gravelly and stony; 4th.rate.
	Timber, scattering cedars and nut pine on Ist. I5.00
,	Chs. Large oak in bunches along the line on N.I/2 of sec.
	also service berry and small oak undergrowth, with

shrubbery and grasses in sufficient quantity to make

good grazing. Mountainous land on 80,00 chs.

```
Chains.
       Separation a random line bet. secs. I2 and I3.
 40..00
        Set temp. I/4 sec.cor.
       Intersect E.bdy.of Tp.(Pine Valley Guide Meridian.),
 79.80
        25 lks.S.of the cor.of secs.7, I2, I3 and I8, establish
        ed by me in Resurvey of this boy., and described in.
       notes thereof.
        Thence I run
       N.89056 W.on a true line bet.secs.12 and 13.
       Descend over W.and S.W.slopes of ridges.
34.50
       Ravine about 50 lks.wide and 20 ft.decp,drains S.100
39.90
       Set a gray granite stone I2xI0x8 ins.,8 ins.in the.
        ground, for I/4 sec.cor., marked I/4 on N.face; and
        raised a mound of stone, 2 ft.base, I 1/2 ft.high, N.
        of cor. Pits impracticable.
       This cor.is on S.W.slope of ridges about I50 ft.below
       the sec.cor.
45.JO
       Ravine about I50 lks.wide and 50 ft.deep,drains N.
       700 W.; ascend from ravine.
       Top of spur about 75 ft.high,,projects N.W;;
52.00
79.80
       The cor.of secs. II, I2, I3 and I4, which is about I25
       ft.below the I/4 sec.cor.
       Land mountainous and broken.
       Soil, gravelly and stony; 4th. rate.
       Timber, scattering cedars and nut pine.
       Undergrowth, thick buncëhes of oaks along the line,
       also medium dense sage and serviceberry brush, with
       shrubbery and grasses which afford good grazing.
       Mountainous land on 79.80 chs.
                                       August 31,1899.
```

N.001'W.bet.secs.II and I2.

Descend gradually over N.W.slope of low ridges and foot hills, cut with hollows and washes sloping generally W. and N.W.

6.75 Trail bears N.30°E.and S.30°W.

12.00 Wash about 30 lks.wide and 8 ft.deep, drains W.

100K # 282

Subdivisions of T.36 S., R.16 W.-Continued.

Chains. 22.00 Foot of descent about 100 ft.below the section. bears N.E. and S.W. ; ascend on S.W. slope. M. Calaba 39.00 Top of spur about 75 ft.bigh bears M.R. and M.V.; descend over W.W. slope of spur. A which have 24.40 Bottom of hollow about 60 ft.below top of apur, drains W. : ascend on S.W. slope of spur and ridge. 40.00 Set a volcanic stone I2xI0x6 ins., 8 ins.in the Side ground, for I/A sec.cor., marked I/4 on W. face; and ... raised a mound of stone, 2 ft.base, 1 1/2 ft.high, W.of cor. Pits impracticable. Corner about 50 ft. above last hollow on S.W. slope of ridge or spur. alice best 42.50 Top of spur about 50 ft.above the 1/4 sec.cor., bears N.E. and S.W. descend over N.W. slope of ridge or spur. 76.00 (Poot of spurs and ridges about 150 ft.below the top.) bears N. 70°E, and S. 70°W.; descend gradually. Set a gray granite stone . I2xI0x8 ins., 8 ins.in the ... 80.00 ground, for cor. of secs. I, 2, II and I2, marked with 5 notches on S. and I notch on E. edges; and raised a ... mound of stone, 2 ft.bass, I 1/2 ft.high, W. of cor. Pits impracticable. Land mountainous and broken ridges! ... Boil, gravelly and stony; 3rd. and 4th. rate. North 4.00 cha.rich olay soil; 2nd.rate. ... Undergrowth, dense sage and scattering oak and were:

Undergrowth, dense sage and scattering oak and service berry brush; shrubbery and granses in sufficient quantity to make good grazing. Mountainous land or land covered with dense under-

3.89°56' E.on a random line bet.secs. J and 12.

growth on 80.00 chs.

40.00 dat temp. 1/4 sec.cor.
T9.70 Intersect K.bdy.of Tp., (Pine Valley Ouide Meridian.),

27 lks.d.of the cor.of secs.1.6.7 and 12, established by ms in resurvey of this bdy., and here to reversely a tribed in the notes thereof.

deptenter lat., 1899:At this cor. I sot off 6010. W.

Chains. on the meridian; the resulting lat is 37032'. Thence I run S.89052'W.on a true line bet.secs.I and I2. Descend abruptly over W.slope of ridge. 3.00 Wash at foot of descent about 50 ft.below the sec. cor., about I5 lks.wide and 3 ft.deep, drains N.200W. Ascend over N.E.slope of ridge. 3.73 Trail bears N. and S. 15.80 Top of spur of ridge about 75 ft.above the wash, bears N.300W.and S.300E.; descend rapidly over W.slope of spur and ridges. 27,80 Wash about IO lks.wide and 4 ft.deep, drains 3.800W. 3I.80 Trail bears N.100W.and S.100E. Wash at foot of descent about IOO ft.below top of 33.30 spur, about I5 lks.wide and 4 ft.deep, drains N. IOOW.; ascend on N.E.slope of ridges. 38.20 Top of spur about 50 ft.high, bears S.E. and N.W.; descend over top of spur. 39.85 Set a trachyte boulder stone 40x30xi2 Ins.,30 ins.in deep in a mound of stone, for I/4 sec.cor., marked I/4on N.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, H. of cor. Pits impracticable. Hard stone surface prevented setting the stone in the ground. 43.45 Ravine about 50 lks.wide and 25 ft.deep,drains N.100W. 43.90 Trail bears N. and S. 69.70 Wash about I2 lks.wide and 4 ft.deop, drains N.W. 74.70 Foot of ridges about I25 ft.below the I/4 sec.cor., bears S.700W.and N.700E.; thence gradually descend over nearly level ground. 79.70 The cor. of secs. I, 2, II and I2. Land mountainous and broken with W.5.00 chs.nearly level. Soil, gravelly and stone; 3rd. and 4th. rate on 74.70 chs.; W.5.00 chs.rich clay soil; 2nd, rate. Undergrowth, dense sage, and scattering oaks and service berry, with shrubbery and grasses in sufficient quantity to make fair grazing. No timber.

Mountainous land and land covered with dense under-

growth on 79.70 chs.

	Chains.	September Ist., 1899: I set off 37032' N.on the
	٠	lat.arc; 808' N.on the decl.arc; and, at 3h p.m., 1.m.
	•	t., determine a true meridian with the solar, at the
		cor.of secs.I,2,II and I2,heretofore described.
	•	
	•	Thence I run N.00I' W.on a true line bet.secs.I and 2,knowing
		from previous retracement of N.bdy.and resurvey of
		' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
,		E.bdy.of Tp., that a closing cor.will be necessary. Over nearly level ground with course of drainage tow.
		·
	3.75	Wash about 30 lks.wide and 8 ft.deep, drains W.
	8.00	Wash about 30 lks.wide and 5 ft.deep, drains N.700W.;
		commence gradual ascent.on S.slope of spur.
	22.50	Top of spur about 50 ft.high, bears E.and W.; descend
	•	over N.W.slope of spur.
	28.05	Trail bears N.W. and S.E.
ļ	33.85	Wash at foot of descent about I5 lks.wide and 5 ft.
		deep, drains W.about 2.00 chs., thence N.W.; ascend on
	•	S.W.slope of spur of ridge.
	40.00	Set a trachyte stone I2x8x8 ins.,8 ins.in the ground,
		for I/4 sec.cor., marked I/4 on W.face; and raised a
		mound of stone, 2 ft.base, I I/2 ft.high, W.of cor.
		Pits impratticable.
	45.00	Top of spur about 75 ft.high, bears E.and W.; descend
		over N.W.slope of spur andridges.
	52.00	Enter valley or basin about 20.00 chs long and about
		20.00 chs.wide, at N.foot of ridges, bears N.600E.and
	, ,	S.60°W.; thence over rolling land, gradually descend-
		ding to N. and N.W.
	56.00	A small spring bears W.about 4.00 chs.;drains N.W.
	58.00	Trail bears N.E. and S.W.
	68.90	Wash about I5 lks.wide and 5 ft.deep, drains S.850W.;
	•	N. side of valley; ascend from wash.
	71.02	Intersect N. bdy. of the Tp., I.29 chs., S.89055 W.from
I		the old cor.of secs.I,2,35 and 36,herefore de-
败) V	scribed in notes of retracement of N.bdy.of this Tp.
J.,	,	Set a yellow sandstone I5xI0x4 ins., I0 ins.in the
		ground, for closing cor.of secs. I and 2, marked C.C.on
		S., with I groove on E. and 5 grooves on W.faces; and
		raised a mound of stone, 2 ft.base, I I/2 ft.high, S.of

Chains. cor. Pits impracticable.

I destroy the marks on the old cor.of secs.I,2,35
and 36, that pertain to secs.I and 2, and remark the

and 36, that pertain to secs. I and 2, and remark the same for cor. of secs. 35 and 36, T. 37 S., R. I6 W., only. Land partly mountainous and partly level and rolling. Soil, rich clay and gravelly; 2nd. and 3rd. rate.

No timber.

Undergrowth, sage, oak and serviceberry in abundance, with shrubbery and grasses in sufficient quantity to make good grazing.

Mountainous land on 46.00 chs.
September Ist., 1899.

September 2,1899:I set off 37028' N.on the lat. arc;705I'30" N.on the decl.arc;and,at 9h a.m.,l.m.t., determine a true meridian with the solar,at the cor. of secs.2,3,34 and 35,on the S.bdy.of the Tp.,established by me and described in Notes of Survey of this Bdy.

N.001 W., bet.secs.34 and 35.

Thence I run

29.00

40.00

55.00

Descend over broken ridges and foot hills, cut with small washes and hollows with general course of drainage Southwesterly.

Wash at foot of descent about 50 ft.below the sec.

cor.,about 10 lks.wide and 4 ft.deep,drains N.50°W.

Ascend on S.E. and E. spur of ridge.

Set a granite stone 20x8x4 ins., I5 ins. in the ground, for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft. base, I I/2 ft. high, W. of cor.

Pits impracticable. Cor. is on E. slope of spur, about 50 ft. above the wash.

Top of spur of ridge about 75 ft.high, bears N. 40°E.
and S. 20°W.; descend over N.W.slope of spur and ridg-

es.
63.00 Foot of spur about 50 ft.below the top, bears S.100W.

and N.10°E.; descend more gradually.

77.00 Wire fence on S.side of field, bears N.800W.about

DUUN HELVE

Subdivisions of T.38 S., R.16 W.-Continued.

Chains.	4.00 chs.,and S.80°E.about 3.00 chs.;enter Brigham
,	Young's field. (No relation to the late Brigham Young
ē 1 4	of the Mormon Church.)
80.00	Set a gray granite stone I8xI0x8 ins., I2 ins.in the
. 1	ground, for cor.of secs.26,27,34 and 35, marked with
	I notch on S. and 2 notches on E. edges; dug pits 18x
1 1	I8xI2 ins., in each sec., 5 I/2 ft.dist.; and raised a
ĺ	mound of earth, 4 ft.base, 2 ft.high, W.of. cor.
	This cor.is in uncultivated part of field.
f 1	Land mountainous and broken ridges and rolling and
	level land.
	Soil on ridges, gravelly; in the field and along foot
	of ridges, rich clay and sandy loams with some grav-
	el;3rd.,2nd.and Ist.rate.
	Timber, scattering cedars and nut pine on 5.60.00 chs.
,	Undergrowth, medium dense sage and service berry brush
	which with shrubbery and grasses afford fair graz-
	ing.
	Mountainous land on 63.00 chs.
	• • • •
	E., on a random line bet.secs.26 and 35.
40.00	Set temp.I/4 sec.cor.
80.10	Intersect N. and S.line 2 lks.S.of the cor.of secs.
	25,26,35 and 36,heretofore described.
	Thence I run
)	S.89°59' W.on a true line bet.secs.26 and 35.
	Descend rapidly ower W. and N.W.slope of high ridges.
40.05	Set a gray granite stone I8xI2x8 ins., I2 ins.in the
:	ground, for I/4 sec.cor., marked I/4 on N.face; and
İ	raised a mound of stone, 2 ft.base, I I/2 ft.high, N.of
ì	cor. Pits impracticable. Cor.is on S.W.slope of ridge
	about I25 ft.below the sec.cor.
45,90	Foot of descent about 50 ft.below the I/4 sec.cor.,
v	bears S.E.and N.W.; ascend on N.E. slope of spur.
46.28	Trail bears S.20oE.and N.20°W.
58.90	
	descent, bears S.E. and N.W.; descend rapidly over S.W.

and S.slope of spur.

	Subdivisions of T.38 S., R.16 WContinued.
	Subdivisions-of T.38-S., R.16-WCc
Chains.	i
76.55	Trail bears S.200W.and N.200 E.; foot of spur about
	I50 ft.below the top, bears N. and S.E.
76.65	Telegraph lone from St.George to Panacca, bears S. and
! .	N. Carlotte and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th
76.75	Fence on E.side of B. Young's field, bears S. 200W.
	about 3.50 chs.; and N.200 E.about 10.00 chs.to a
	small reservoir at head of field, thence turns N.700
	W. Enter field.
80.10.	The cor. of secs. 26, 27, 34 and 35.
,	Land mostly mountainous and broken.
155	Soil on ridges gravelly; 3rd.rate; in the field clay
16.35	and sandy loams; 2nd.and. Ist.rate.
1 3.	Timber, Scattering cedars and nut pine on E.66.00 chs.
	Undergrowth, scattering oak and sage, and shrubbery and
	grasses in sufficient quantity to make good graz-
-	ing.
}	Mountainous land on 76.55 chs.
	The field contains about IO acres, 4 or 5 acres being
	cultivated to corn, potatoes and other vegetables,
	and water and musk melons. It is supplied with water
Transferrance of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract	from Kane Spring wash, which is conveyed in a canal
	in a Southwesterly direction a distance of about
	I5.00 chs., to reservoit at head of farm.
	September 2, 1899: I set off 7048' 30" N.on the
	decl.arc; and, at 12h M., l.m.t., observe the sun on the
	meridian; the resulting lat.at this cor.of secs.26,27,
	34 and 35, is 37°28'36" N.
•	
•	N.OOI' W., bet.secs.26 and 27.
,	Over nearly level field land, sloping W.and N.W.
7.00	Fence on N.W.side of field bears N.300 E.about 4.50
-	chs., thence turns S.70° E.; and S.30° W.about IO.00
	chs.;leave field:descend abruptly into Kane Spring

I3.00 Kane Spring wash about 40 lks.wide and 40 ft.deep,
drains S.400 W.; ascend abruptly from wash.

I6.00 Road from St George to Modera by way of Hamblin

wash.

I6.00 Road from St.George to Modena by way of Hamblin,

Chains. bears S.300 W. and N.300 E. 21.50 Kane Spring, bears E.about 10.00 chs.dist.; house about 3.00 chs.N.of main spring; corrall on E.side of wash, E. of house. The contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contrac Top of spur about 75: ft.high, bears E.and W.; descend. 30.20 35.40 Hollow about 50 ft.below top of spur drains S.E., 1.11 along foot of spur:ascend. 40.00. Set a volcanic stone I6xI0x4 ins., IL ins.in the ground for I/4 sec.cor., marked I/4 on W.face; and traised a mound of stone, 2 ft.base, I I/2 ft.high, W.oficor. Pits impracticable. Top of spur about 50 ft.high, bears E.and W.; descend. 40.73 Foot of spur bears. S.E. and . N.W.; ascend. 48.43 Top of spur about 50 ft.high, bears S.E. and N.W.; 53.00 descend. Road from St.George to Modena, bears S.500 E.and N. 55,00 500 W.: Wash about 30 lks.wide and 6 ft.deep, drains S.500 E.; 56.I3 ascend from wash. Telegraph line bears S.500 E.and N.500 W. 57.00 Top of knoll about 50 ft.high ,bears E.and W.; descend. 70.00 N.foot of knoll, bears E.and W.; ascend. 73.00 Set a gray granite stone I8xI0x8 ins., I2 ins.in the 80.00 ground, for cor.of secs.22,23,26 and 27, marked with 2 notches on S.and E.edges; and raised a mound of stone, 2 ft.base, I. I/2 ft.high, W.of.cor. Pits impracticable. This cor.is on N.W.slope of ridge about 50 ft.above the foot. Land mostly mountainous and broken ridges. 7.00 chs. in field nearly level. Soil, gravelly and stony on ridges; 4th.rate. In the field; sandy and clay loams; 2nd. and Ist.rate ... No timber, except scattering cottonwoods and black willows and oaks along Kane Spring wash; and scattering cedars and pines on N.30.00 chs. Sage, oak and service berry undergrowth, along the ridges; oak, willow and birch along Kane Spring wash. Undergrowth, grasses and shrubbery afford good grazand the same of the same of Mountainous land on 77.00 chs.

Chains.

80.I6

I4.16

26.4I

36.36

40.08

74.I6.

80.16

N.89059 E.on a random line bet.secs.23 and 26. 40.00

Set temp. I/4 sec. cor.

Intersect N. and S.line, 2 lks. S. of the cor. of secs.

23,24,25 and 26, heretofore described.

Thence I run

S.890 58' W.on a true line bet.secs.23 and 26.

Descend over W.slope of ridges.

6.16 Wash about 25 lks.wide and 8 ft.deep, about 50 ft.below

the sec.cor., drains S.; ascend. Top of ridge about 100 ft.above the wash, bears N. and

S.; descend.

Wash about I2 lks.wide and 4 ft.deep, about 75 ft.

below top of ridge, drains S.800 E.; ascend E.slope of ridge.

Top of ridge about 60 ft.high, bears S.400 W.and N.400

E.; descend over N.W. slope of ridge.

Set a granite stone I5xI5x8 ins., I0 ins.in the ground,

for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I 1/2 ft.high, N.of cor.

Pits impracticable. 63.90 Wash about 8 lks.wide and 4 ft.deep, drains S.500 E.;

ascend.

Top of spur about 50 ft.high, bears N.and S.; descend.

The cor.of secs.22,23,26 and 27, about 40 ft.below

of last spur.

Land mountainous and broken ridges.

Soil, gravelly and stony; 4th.rate. Timber, scattering cedars and nut pine on E.65.00 chs.

Undergrowth, oak in bunches, and service berry brush.

Undergrowth, shrubbery and grasses afford fair grazing.

Mountainous land on 80.16 chs.

September 2,1899.

N.001 W.bet.secs.22 and 23.

Ascend over N.W., W. and S. slopes of broken ridges.

4.30 Ravine about I50 lks.wide and 50 ft.deep, drains S. IOO W.

Chains. Ravine about IOO lks.wide and 50 ft.deep,drains S. I8.60 The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s Top of ridge about 200 ft.above the sec.cor., bears. 28.00 S.E.and N.W.; descend. Trail bears N.500 W.and S.500 E. 37.00 Bottom of hollow at foot of ridges about 75 ft.below 37.50 top of last ridge, drains N.500 W.; ascend along S.W. slope of ridge. Settle gray granite stone I5xI2x6 ins., I0 ins.in the 40.00 ground, for I/4 sec.cor., marked I/4.on W.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W. of cor.; from which cor. A double cedar, I4 ins.diam., bears S.570 E., 9 lks. dist., marked I/4 S.23, B.T. A cedar IO ins.diam., bears N.3I I/20 W.,32 lks.dist, marked, I/4 S.22, B.T. Continue ascending over broken ridges with course of The transfer of the second drainage W.and N.W. Trail bears E.and W... 54.00 Ravine about 40 lks.wide and I5 ft.deep, drains W. 66.40 Top pf ridge about IOO ft.above the I/4 sec.cor., . 70.00 bears N.E. and W.; thence along the W. slope of ridge. Commence to descend on N.slope of ridge, bears S.700 78.00 W.and N.700 E. Seta blue limestone I8xI0x8 ins., I2 ins.in the ground 80.00 for cor.of secs. 14, 15, 22 and 23, marked with 3 notches on S. and S. notch on E. edges; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W.of cor. Pits impractacable. Land mountainous and broken. Soil, gravelly and stony; 4th. rate. Timber, scattering cedars and nut pine on S.70.00 chs. Oak and service berry undergrowth with grasses and shrubbery afford fair grazing. Mountainous land on 80.00 chs.

Chains. N.89°58' E.on a random line bet.secs.I4 and 23.

40.00 Set temp.I/4 sec.cor.

80.I8 Intersect N.and S.line,27 lks.S.of the cor.of secs.

I3,I4,23 and 24,heretofore described.

Thence I run

S.89°46' W.on a true line bet.secs.I4 and 23.

Descend over top of divide and along S.slope of ridges ges.

Set a granite stone I5xI5x4 ins., I0 ins.in the

raised a mound of stone, 2 ft.base, I I/2 ft.high, N. of cor. Pits impracticable.

This cor.is about I50 ft.below the sec.cor.

Spur of ridge bears E.and S.W.; descend over N.slope

ground for I/4.sec.cor., marked I/4 on N.face; and

slope of ridge.

80.18 The cor.of secs.14,15,22 and 23,about 100 ft.below the I/4 sec.cor.

Timber, scattering cedars and nut pine.
Undergrowth, medium dense sage and serviceberry and scattering oak, which with shrubbery and grasses in

abundance make good grazing.

Mountainous land on 80.18 chs.

Land mountainous and broken.

Soil, gravelly and stony; 4th.rate. :

40.09

75.00

September 4,1899:At this sec.cor.,I set off 704 N.on the decl.arc; and, at 11h59m a.m.,1.m.t., observe the sun on the meridian; the resulting lat.is 37°30' N.

- 001' W.bet.secs.I4 and I5; descending over N.slope of spur of ridge.

 6:34 Wash at foot of spur of ridge, about 75 ft.below the sec.cor., about I5 lks.wide and 5 ft.deep, drains N.

 850W.; foot of spur bears .E.and .W.; ascend.
- IO.00 Trail bears N.50° W.and S.50° E.

 I9.34 Top of spur about 50 ft.high, bears E.and W.; descend.
- Ravine about 45 lks.wide and IO ft.deep, drains N. 80°W.:ascend from ravine.
- 40.00 Top of spur about 50 ft.high, bears E.and W.

٠,		1300K K 20 /-
		••
	•	Subdivisions of T.38 S., R.16 WContinued.
	Chains.	Set a porphyry stone I5xI4x6 ins., I0 ins.in the ground, for I/4 sec.cor., marked I/4 on W.face; and
		raised a mound of stone, 2 ft. base, I I/2 ft. hagh, Wi
,	,	of cor. Pits impracticable.
		Descend over N.E.slope of spur and ridge.
	51.64	Foot of ridge about 50 ft.below the top, bears N.300
		W.and S.30° E.; ascend.
	54.34	Top of spur or ridge about 50 ft.high, bears S.80°W.
		and N.800 E.; descend.
*	58.34	Foot of spur on S. side of Mountain Meadow bottom,
		about 50 ft.below the top of spur, bears S.800W.and N.
		800 E.; thence over nearly level land.
	60,68	Wash about 30 lks.wide and IO ft.deep, drains N.500W.
	66.50	Wash about IO lks.wide and 4 ft.deep, drains N.600W.
	70.34	Old chimney and ruins of house bears W.about 2.00 chs
	71,00	Creek about 2 lks.wide and I ft.deep, with water
		about 2 ins.deep, runs S.700 W.about 2.00 chs.; thence
		N.800 W.about 7.50 chs.to Abe Burgess' Reservoir.
	79.30	Wash about 15 ft.wide and 6 ft.deep, on N. side of
	1	Mountain Meadow bottom, drains S.300 W.; begin ascent
		of low ridges, bears N.E. and S.W.
	80.00	Set a granite stone 20xI0x8 ins., I5 ins. in the ground
		for cor.of secs.IO,II,I4 and I5,marked with 4 notches
·	39/	on S.and 2 notches on E.edges; and raised a mound of
	ارتئ	stone,2 ft.base, I I/2 ft.high, W.of cor.
		Pits impracticable. The cor.is on S.W.slope of ridge
		about 50 ft.above last wash.
		Land, partly mountainous and broken ridges, and partly
		nearly level land.
	ł	deal on the midden on well will mate in the Mountain

nearly level land.
Soil, on the ridges, gravelly; 3rd.rate; in the Mountain Meadow bottom, clay loam; 2nd.and Ist.rate.
No timber.
Oak, service berry and sage undergrowth, shrubbery and grasses afford good grazing.
Mountainous land on 59.00 chs.

N.89°46' E.on a random line bet.secs.II and I4.
40.00 Set temp.I/4 sec.cor.

Chains. 80.16 Intersect N. and S.line, 22 lks. N. of the cor. of secs. I1,12,13 and I4, heretofore described. September 4,1899:At this cor. I set off 37031' N.on the lat.arc; 700/N.on the decl.arc; and, at 4h p.m. 1.m.t., determine a true meridian with the solar. Thence I run S.89055' W.on a true line bet.secs.II and I4. Descend over low ridges with course of drainage North westerly. _4.I6 Trail bears N.10° W.andS.10° E. Wash about 10 lks.wide and 4 ft.deep, drains N.W.Ascend. IÖ.00 I5,00 Trail bears N.800 W.and S.800 E. Top of spur about 50 ft.high, bears N.and S.; descend 30.00 along S.W. and S. slope of spur. Set a granite stone I5xI0x5 ins., 10 ins.in the ground 40.08 for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, N.of cor. Pits impracticable. Cor.is on S. slope of spur, about 25 ft.below the top. Wash at foot of descent about 75 ft.below the I/4 78.56 sec.cor., about 12 1ks. wide and 6 ft. deep, drains S. 10° W.about 2.00 chs.; thence S.30° W.; reservoir bet. two low ridges, about 2.00 chs.wide E.and W., and about 3.00 chs.long N. and S., bears N. about 2.00 chs. dist.from line.Now in course of construction. Ascend. Trail bears N.200 E.and S.200 W. 79,56 80.I6 The cor. of secs. 10, 11, 14 and 15 about 40 ft. above last wash. Land mountainous and broken ridges Soil, clay and gravelly; 2nd. and 4th.rate. No timber. Undergrowth of sage, oak and service berry, shrubbery and grasses in abundance make fair grazing. Mountainous land on 80.16 chs. September 4,1899.

September 5, 1899: I set off 37031. N.on the lat. Chains. arc; 6045' N.on the decl.arc; and, at 9h30' a.m., 1. m.t., determine a true meridian with the solar, at the cor.of secs.10,11,14 and 15,heretofore described. Thence I run N.00 l'.W., bet.secs.IO and ll; gradually descending over S.W.and S.slopes of low broken ridges. Trail bears N.200 E.and S.300 W. J.50 Reservoir bears E.about I.25 ch. 3,00 Ravine about I50 lks.wide and 50 ft.deep, drains S.700 I4.62 Top of spur or ridge about IOO ft.above the sec.cor. 25.22. bears E.and W. N.850 W.about 40.00 chs.dist.from this point is a small monument, supposed to mark the place where the Mountain Meadow Massacre of Arkansas emigrants took place, claimed by old settlers to have been committed by the Indians from Corn Creek and other parts of Northern Utah. Descend over low broken ridges, cut with small hollows and washes with course of drainage to W. and Northwesterly. ... Set a gray granite stone I2xI2x7 ins.,8 ins.in the 40,00 ground, for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft. base, I I/2 ft.high, W. of cor. Pits impracticable. Set a yellow sandstone I5xI2x8 ins., I0 ins.in the 80.00 ground, for cor.of secs.2,3,10 and II, marked with 5 notches on S. and 2 notches on E. edges; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W.of.cor. Pits impracticable. Land mountainous and broken ridges. Soil, clay and gravelly; 3rd. and 4th. rate. No timber. Undergrowth, dense sage, and scattering oak and service berry brush, with shrubbery and grasses, afford afford fair grazing. Mountainous land on 80.00 chs.

Chains. N.89055' E.on a random line bet.secs.2 and II.

40.00 Set temp.I/4 sec.cor.

80.24 Intersect N.and S.line at the cor.of secs.1,2,11 and 12, heretofore described.

September 5,1899:At this cor.I set off 6042' N.on the decl.are; and, at 11h59' a.m.,1.m.t., observe the sun on the meridian; the resulting lat.is 37032' N.

Thence I run

sun on the meridian; the resulting lat.is 37032' N.

Thence I run

S.89055' W.on a true line bet.secs.2 and II; gradually descending over slightly rolling land.

7.86 Trail bears N.W.and S.E.

13.60 Wash about 25.lks.wide and 8 ft.deep,drains N.IOOW.;

I8.00 E.foot of low ridges bears N.200 W.and S.200 E.;

20.00 Top of ridges about 50 ft.high, bears N.and S.; thence over low broken ridges, cut with small washes and hollows, with general course of drainage N.and N.W.

Seta yellow sandstone I4xI2x5 ins., IO ins.in. the ground, for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W. of cor. Pits impracticable.

The cor.of secs.2,3,10 and II.

Land mountainous and broken ridges; and slightly rolling.

Soil, clay loam and gravelly; 2nd. and 3rd. rate.

Undergrowth, medium dense sage, oak and service berry brush; with shrubbery and grasses in sufficient quantity to make good grazing.

Mountainous land on 62.24 chs.

From the cor.of secs.2,3,10 and II,above described, I run
N.00I' W., on a true line bet.secs.2 and 3,knowing

from retracement of N.bdy.of the Tp.that a closing cor.will be necessary.

Gradually descending over low broken ridges and \searrow

Chains, foot hills, cut with small washes and hollows, with with general course of drainage Northeasterly. 40.00 (Set a granite stone 20x8x6 inst, 15 instin the ground, for I/4 sec. cor. , marked . I/4 on Wiface; and raised a mound of stone 2 ft. base I 1/2 ft. high. W. of cor. Pits impracticable. On the wind and 41.60 S.foot of knoll bears Reand Watescend Company in 46.68 Top of knoll about 50 ft.high, bears E. and W.; descend over N. slope of knoll and broken ridges Ravine or wash at foot of low ridges, about 50 ft. below E3.60 top pf knoll, about 60 lks.wide and 3 ft.deep.drains N.500 E.about 5:00 chs., thence N. 100 E.along the foot of low ridges; ascend from ravine or wash over The said the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said of the said low broken foot hills: Road from St.George to Hamblin and Modena; bears S. 58.20 Ravine about 12 lks.wide and 6 ft.denp.drains N.800 61.75 E.about 3:50 chs.to foot of ridges; thence along low foot halls on general course of N. 200 E. gal /s Trail bears N. 70° E. and S. 70° W. 65.40 71.28 Intersect N.bdy.of the Tp.,97 lks. of secs.2,3,34 and 35, heretofore described in Notes of retracement of this bdy. Set a gray granite stone I5xI0x8 inst. IO instin the ground, for closing cor.of secs. 2 and 3, marked C.C. on S., with 2 grooves on K. and 4 grooves on W. faces: and raised a mound of stone, 2 ft., base, I 1/2 ft. high, S.of cor. Pits impracticable. I destroy the marks on the old cor. of secs: 2:3.34. and 35, that pertain to sees. 2 and 3, and remark the same for cor. of secs. 34-and 35, T. 37: S., R. 16 W., only. lund mountainous and broken foot hills and ridges. Soil, clay and gravelly; 3rd and 4th .rate. No timber. Undergrowth, medium dense sage and scattering service berry brush, with shrubbery and grasses in suffictiont quantity to make fair grazing.

Mountainous land on 71.26 chs.

September 5,1699.

Chains.

40.10

September 6,1899:I set off 37028' N.on the lat. arc; 6022 N.on the decl.arc; and, at IOh a.m., l. m.t., determine a true meridian at the cor. of secs. 3,4,33 and 34, on the S.bdy.of the Tp., heretofore described in Notes of Survey of this bdy. Thence I run . N.002' W., bet.secs.33 and 34.

Ascend over steep and rocky S. slope of high ridge.

- Top of ridge about 250 ft.high, and about 100 ft.above 3.50 the sec.cor., bears N.600 E.and S.600 W.; descend over N.E. slope of ridges.
- Trail bears N.500 W.and S.500 E. 39.75 40.00 Set a granite stone 30xI5x6 ins.,23 ins.in the ground for I/4 sec.cor., marked I/4 on W.face; and raised a

mound of stone, 2 ft.base, I 1/2 ft.high, W. of cor. Pits impracticable. Corner is on S.edge of wash about 100 ft. below top of last ridge.

- Wash about 15 lks.wide and 4 ft.deep, drains 5.50° E.
- Ascend from wash on S.W. slope of ridges... Ravine about 150 lks.wide and 50 ft.deep, drains S. 60.25
- 300 W.; continue ascending on S.slope of ridge.
- Hollow about 75 lks.wide and 50 ft.deep, drains 3.500 64.45
- W.; continue ascending on S.W.slope of ridges. Set a volcanic stone 20x12x8 ins., 15 ins.in the 80.00

ground, for cor. of secs. 27, 28, 33 and 34, marked with 1 notch on S. and 3 notches on E. edges; and raised a

mound of stone, 2 ft.base, I 1/2 ft.high, W.of cor. Pits impracticable. This cor. is on S.W. slope of high ridge, about 150 ft. above the 1/4 sec. cor.

Land mountainous and broken.

Soil, gravelly and stony; 4th. rate. No timber, except very few scattering cedars and pines. Undergrowth, medium dense sage, oak and service berry

brush; with shrubbery and grasses, making fair grazing.

Mountainous land on 80.00 chs.

Chains. E., on a random line bet.secs.27 and 34. Set temp. I/4 sec.cor. 40,00 Intersect N. and S.line, at the cor. of secs. 26, 27, 34 80.00 and 35, heretofore described. September 6,1899:At this sec.cor., I set off 60 19'30" N.on the decl.arc; and, at lih58m a.m., l.m.t., observe the sun on the meridian; the resulting lat is 37028 36" N. Thence I run W., on a true line bet.secs.27 and 34... Descend over nearly level field land, gradually Northwesterly. Wire fence on W.side field, bears S.200 W.about 2.00 2.26 chs., and N. 200 E.; descend rapidly into Kane Spring wash; leave field. Trail bears N. and S. 2.44. Kane Spring wash about 30 lks.wide and 20 ft.deep, 3.90 drains S.30° E.; ascend abruptly from wash. Road from St. george to Hamblin and Modena, bears S. 5.65 · ·. 30° W.and N.30° E. Top of spur about 50 ft.high, bears 5.300 W.and N.300 E. 6.00 Descend. Wash about I2 lks.wide and 4 ft.deep, drains S.IOOE.; II.25 ascend. Top of almost perpendicular ledges about 40 ft.high, 22.90 bears N. and S. Along these ledges are Indian or Spanish characters carved in the rocks. Continue ascending along the top of ridge. Top of ascent of ridges about I50 ft.above the sec. 28,00 cor., bears E. and W.; thence along the top of ridges. Set a volcanic stone I6xI2x5 ins., II ins.in the 40.00 ground, for I/4 sec. cor; marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I 1/2 ft.high, N. of cor. Pits impracticable. Begin descent over W. slope of ridges into ravine. 49.50 Ravine about 2.00 chs.wide and 75.ft.deep, drains 55.55 S.40° W.; ascend rapidly from ravine over: S.E. slope of rocky ridge. The property of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract o Top of ridge about 125 ft. above the ravine, bears N.E. 73.00 and descends rapidly S.W.; descend

Subdivisions of T.38 S., R.16 W.-Continued. Chains. The cor. of secs. 27, 28, 33 and 34, about 100 ft. below 80.00 Land mountainous and broken ridges, with E.2.26 chs. nearly level farming land: Soil, on the ridges, gravelly and stony; 3rd. and 4th. rate; in the field, clay and sandy loams; Ist. and 2nd. rate. No timber, except very few cedars and nut pine along the central part of the line. Medium dense sage, scattering oak and service berry brush, shrubbery and grasses afford fair grazing. Mountainous land on 77.00 chs. N.002' W., bet.secs.27 and 28. Ascend rapidly over rugged and rocky S.W.slope of ridge. I6.00 Top of ridge about 250 ft.high, bears S.500 E.and

N.50° W.; thence along top of ridge.

22.50 Begin descent over N.E.slope of ridge, bears S.E. and N.W.

40.00

46.76

50.00

ground, for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W. of cor. Pits impracticable.

This cor.is on steep N.E.slope of high ridge about 200 ft.below the top of ridge.

at N.E.foot of ridge about 50 ft.below the I/4 sec.

cor., about 12 lks.wide and 4 ft.deep, drains \$.500W.;

Set a gray granite stone I8xI4x8 ins., I2 ins.in the

ascend rapidly from wash over S.W.slope of ridge.

Ravine about 2.00 chs.wide and 75 ft.deep, drains

S.500 W.

- 70.00 Top of ridge about 250 ft.high, bears, E.and, W.; thence along, the top of ridge.

 74.50 Commence very steep descent over N.E.slope of ridge bears S.E.and N.W.
- 80.00 Set a trachyte stone I8xI5x6 ins., I2 ins.in the

Chains. ground, for cor.of secs.21,22,27 and 28, marked with 2 notches on S. and 3 notches on E. edges; and raised. a mound of stone, 2 ft.base, I 1/2 ft.high, W.of cor. Pits impracticable. This cor.is on N.E.slope of high ridge about IOO feet below the top of same ridge: Land mountainous and very rough. Soil, gravelly and stony; 4th. rate. No timber, except very few cedars on S.I/2 mile. Undergrowth, dense oak and sage and scattering service berry; shrubbery and grasses; which afford fair grazing. Mountainous land on 80.00 chs. E., on a random line bet.secs.22 and 27. Set temp. 1/4 sec.cor. 40.00 Intersect N. and S.line, 2 lks. S. of the cor. of secs. 80.06 22,23,26 and 27, heretofore described. the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s Thence I run S.89059' W., on a true line bet.secs.22 and 27. Descend over N.W. slope of ridge. Ravine about 25 lks.wide and 8 ft.deep, drains S.500 5.80 W. W.foot of ridge bears N.E. and S.W.; gradual descent Wash about IO lks.wide and 4 ft.deep, drains S. II.90 Telegraph line from St. George to Panaca, bears S.500 24.IO E.and N.500 W. Road from St. George to Hamblin and Modena, bears S. 28.60 Foot of descent, about 75 ft.below the sec.cor., bears 32.00 N.W. and S.E.; ascend over E.slope of ridges. 40.03 Set a granite stone I6xI2x8 ins., II ins. in the ground for I/4 sec.cor., marked I/4 on N. face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, N.of cor. Pits impracticable. Corner is on E. slope of high . ridge, about 75 ft. above foot of descent. Top of ascent on spur of main ridge, descends rapid-71.50 ly N.400 E., and ascends S.400 W.; descend over N.W.

slope of spur, and N.E. slope of main ridge.

Chains. Spur about 75 ft.above the I/4 sec.cor.

80.06 The cor.of secs.21,22,27 and 28,about 40 ft.below top of spur.

Land mountainous and broken ridges.
Soil grayelly and stony: 3rd and 4th rate

Soil, gravelly and stony; 3rd. and 4th. rate.

Timber, very few cedars on central part of line.
Undergrowth, medium dense sage, oak and service berry;

Undergrowth, medium dense sage, oak and service berry; shrubbery and grasses; which afford fair grazing.

Mountainous land on 80.06 chs.

September 6,1899.

N.002' W.bet.secs.21 and 22.

2I.75

22.50

23.50

25.50

33.50

38.IO

40.00

Trail bears N.300 W.and S.300 E.

Descend rapidly over N.E. slope of high rocky ridge.

Wash at foot of ridge about I50 ft.below the sec.cor. about I2 lks.wide and 4 ft.deep, drains N.300 W., I.00

ch., thence W.; ascend rapidly over S.W. slope of ridge.

Top of spur on W.slope of ridge about 75 ft.high, bears E.and W.;descend.

Wash at foot of spur about 50 ft.below top of same, about I5 1ks.wide and 4 ft.deep,drains W.;trail fol-

lows course of wash. Ascend.
Top of ridge about 50 ft. above the wash, bears S.E.

and N.W.; descend over N.E. slope of ridge.

Bottom of hollow at foot of ridge, about 50 ft.below

the top, drains 3.800 E.; ascend on S.E. slope of ridge.

Set a volcanic stone I8xI2x8 ins., I2 ins.in the ground, for I/4 sec.cor., marked I/4 on W.face; and

raised a mound of stone, 2 ft. base, I I/2 ft. high, W.

of cor. Pits impracticable. This cor. is on S.E. slope of ridge about 50 ft. above bottom of last hol-

low.

44.00 Top of ridge about 30 ft.above the I/4 sec.cor., bears E.and W.; descend.

50.00 Bottom of hollow about 50 ft.below top of ridge, drains W.; ascend.

55.50 Top of ridge about 50 ft.high, bears S.W. and N.E.; descend over N.W. slope of ridges.

Chains. Wash at N.W.foot of ridges, about IOO ft.below top 69.00 of last ridge, about 12 lks. wide and 4 ft. deep, drains S.200 W.; foot of ridges bears N.E. and S.W.; ascend gradually. Trail bears N.200 E.and S.200 W. 69.20 Wash about 40 lks.wide and 20 ft.deep, drains S.800W. 70.44 about I.50 ch., thence S. Enter Abe Burgess 'field and pasture on N. side of wash.; thence over nearly level ground. Old road bears N.E. and S.W. 72.60 At 80.00 chs.the point for cor.of secs. 15,16,21 and 22, falls in deep Mountain Meadow wash, on unsafe Set a gray granite stone 24x12x8 ins.,18 ins.in the 79.00 ground, for witness cor. to the cor. of secs. 15, 16, ... 21 and 22, marked W.C., 38 S, on N.E., and I6 W.on S.E. faces, with 3 notches on S.and E.edges; dug pits I8xI8 XI2 ins., in each sec., 5 I/2 ft.dist.; and raised a mound of earth, 4 ft.base, 2 ft.high, W. of cor. From this witness cor., the W.end.of the Mountain Meadow Monument erected over the graves of emigrants killed by the Indians, bears N.24045' W., 3.77 chs. dist. This monument is built of small granite or cobble stone and is falling to pieces. Descend over perpendicular bank of wash about 35 ft. 79.38 deep, and about I.00 ch. wide, bears S.W. and N.E. The point for the cor.of secs. 15, 16, 21 and 22, in the 80.00 bottom of the Mountain Meadow wash, in unsafe place to establish sec.cor., as witnessed at 79.00 chs. A spring branch in bottom of wash, from which rises Mountain Meadow Creek, a stream of pure fresh water about 3 lks.wide and 4 ins.deep, runs in bottom of wash, S. 450 W., about I.00 ch#, thence S., and South : 3. Westerly through the Tp., and known as the Mc. Godsey creek where it crosses the S.bdy.of the Tp. Land partly Mountainous and broken; partly nearly level field and pasture. Soil, on the ridges gravelly and stony; 3rd. and 4th. rate; in the field and pasture; rich clay loam; Ist. rate.

Chains. No timber, except very few scattering cedars on S. 1/2 mile... Medium dense sage, oak and service berry undergrowth on the ridges and in the bottom on S.70.00 chs. Mountainous land on 69.00 chs. Action 13 to the contract N.89059! E.on a random line bet.secs. 15 and 22. 40.00 Set temp. I/4 sec.cor. Intersect N. and S.line, 6:1ks. N. of the cor. of secs. 80.08 . . ; ; ; 14,15,22 and 23, heretofore described. Thence I run N.89058 W., on a true line bet.secs.I5 and 22. Descend over steep W. slope of spur of ridge. 14.00 \ Wash about 50 lks.wide and 6 ft.deep, drains N.500W. I4.40 Telegraph line connecting St. George and Panacca, bears S.and N.; trail bears N.5% E.and S.50W. I7.26 Road from St.George to Hamblin and Modena bears S. 30° E.and N.30° W.about I.00 ch., thence N.50° E.; foot of ridges about I50 ft.below the sec.cor., same course as road. Descend over N.E. and N. slope of broken ridges. 34.76 Wash about 30 lks.wide and IO ft.deep, drains N. 40.04 Set a gray granite stone 30xI2xI0 ins.,23 ins.in the ground for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone, 2 ft. base, I I/2 ft. high, N. of cor. Pits impracticable. This cor.falls on S. side of deep wash which drains W. Thence along N.W.slope of ridges, ascending. 66.75 Top of ascent on spur of ridge about 50 ft.high, bears N. and S.; descend. 71.00 Trail bears S.500 W.and N.500 E. 72.00 Wash at N.W.foot of ridges, about 100 ft.below the top of spur, about 50 lks.wide and 30 ft.deep, drains S.500 W.; enter Abe Burgesse's pasture and field; thence over nearly level ground.

for witness cor. to the cor. of secs. 15, 16, 21 and 22, marked W.C., 38 S. on N.E., and 16 W. on S.E. faces, with

Set a granite stone I5x8x5 ins., I0 ins.in the ground

Chains. 3 notches on S. and E. edges; dug pits I8xI8xI2/ins. ... in each sec., 5 I/2 ft.dist.; and raised a mound of earth, 4 ft.base, 2 ft.high, W. of cor. 100 cor. The cor.of secs. I5, I6, 2I and 22, in bottom of Moun-80.08 tain Meadow Wash. Land mostly mountainous and broken ridges with about 8.00 chs.nearly level field land. Soil on the ridges, gravelly and stony; 3rd and 4th. In the field and pasture clay loam; Ist rate; 3 No timber. Undergrowth, medium dense sage, service berry and scattering bunches of oaks, with shrubbery and grasses on the ridges which afford good grazing. Mountainous land on 72.00 chs. September 7,1899:At this sec.cor. I set off 5057 N.on the lat.are; and at llh58m a.m., l.m.t., observe. the sun on the meridian; the resulting lat is 37030! N. is the second of the THE STATE OF THE STATE OF THE STATE OF THE PARTY OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S Secretary to the second From the cor.of secs. 15, 16,21 and 22, which falls in the Mountain Meadow wash, I run N.002 W., bet.secs.15 and 16. Ascend along bottom of wash, and colory Ascend from wash over bank about 30 ft.high, bears S.W. and N.E.; thence gradually ascend over nearly level land in pasture; a second of the second Road bears N.200 E.and S.200 W. 8.65 Enter low foot hills bears N.E. and S.W. 11.00 Leave foot hills bears N.E. and S.W. 21.50 Wire fence on W.side of Abe Burgesses pasture, bears 35.85 N.300 E.and S.300 W. Abe Burgess' dwelling house bears E.of line 42.00 38.50 chs.dist. Fenced garden of about one acre surroundhouse; corral, stables, granary and stackyard N. of the house and garden. A small stream of water which heads at two springs Southeasterly from the house about . 40.00 chs.dist., with flow of about 6 ins. wide and 3 or 4 ins.deep, runs Northwesterly, and is used by Mr.

Chains. Burgess for irrigation of garden, and for culinary and domestic purposes.

Set a yellow sands tone 16x12x7ins., II ins.in the ground for I/4 sec.cor., marked I/4 on W.face; dug pits 18x18 x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 2 ft. base, I. I/2 ft. high, W. of cor.

This cor. is 3.31 chs. W. of wire fence on W. side of field and pasture, which bears S. 250 W. and N. 250 E.

field and pasture, which bears S.25° W. and N.25° E. Wash 8 lks.wide and 3 ft.deep, drains S.30° E.; begin

ascent of low ridges and foot hills, bears N.E. and S.W 80.00 Set a white sandstone I2xI0x8 ins.,8 ins.in the

ground, for cor. of secs. 9, 10, 15 and 16, marked with 4 notches on S. and 3 notches on E. edges; and raised a mound of stone, 2 ft. base, I I/2 ft. high, W. of cor.

Pits impracticable. The cor.is on the S.E.slope of low ridges or foot hills.

Land partly mountainous and broken ridges and foot hills, and partly nearly level land.

Soil in the valley clay loam with intermixture of gravel, and on the ridges, gravelly and stony; Ist. 2nd. and 4th.rate.

No timber.

6I.50

Undergrowth, medium dense sage, stattering oak and service berry brush; shrubbery and grasses; which afford fair grazing.

Mountainous land on 29.00 chs.

S.89058' E.on a random line bet.secs.IO and I5.

40.00 Set temp. I/4 sec.cor.

80.I8

Intersect N. and S.line, 2 lks. S.of the cor.of secs.

10,11,14 and 15, heretofore described.

Sept.7, I899: At this sec. cor., I set off 3703I'N.on the lat.arc; 5054'N.on the decl.arc; and, at 3h 58m p.m., l.m.t., determine a true meridian with the solar.

Thence # run

N.89°59' W.on a true line bet.secs.IO and 15.
Ascend over S.W.slope of low ridge or spur

Subdivisions of T.38 S., R.16 W.-Continued. Chains. Top of ascent on spur about 40 ft.high, bears N. and 2.30 S.: descend. Foot of spur or ridge bears N.E.and S.W.; thence grad 6.00 ually descend over rolling valley. 14.98. Trail bears N.10° E.and S.10° W. Road from St.George to Hamblin and Modena bears 5.300 16.08 E.and N.30 W. . Wash about I5 lks.wide and 4 ft.deep, drains S.I.00 I6.48 ch., thence S.W. Trail bears N.W. and S.E. 19.18 Telegraph line running from St. George to Pahacca, 21.68 bears S.IOO E.and N.IOOW. N.E.cor.of Abe Burgess' fence bears S.about 20.00 30.00 chs.ffom line. Wash about I2 lks.wide and 4 ft.deep, drains S.300 W. 38.78 Set a yellow sandstone I4xI0x8 ins., IO ins.in the 40.09 ground, for I/4 sec.cor., marked I/4 on N.face; dug pits I8xI8xI2 ins., E. and W. of stone 3 ft.dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, N.of cor: Wash about 40 lks.wide and I5 ft.deep,drains S.20° 42.58 Small seapage and water in holes along the wash. Ascend from wash over low foot hills and broken ridridges. Trail bears 5.20° W.and N.20° E. 46.I8 N.W.cor.of Abe Burgess fence bears S.of line about 60.00 I8.00 chs.dist. Wash about 20 lks.wide and IO ft.deep, drains S.30°E. 63.68

- 63.68 Wash about 20 lks.wide and IO 1
 73.03 Trail bears N.W.and S.E.
- 80.18 The cor.of secs. 9,10,15 and 16.

 Land partly mountainous and broken ridges and foot.

 hills; partly nearly level and rolling land.
 - Soil on the ridges rich clay, stony and gravelly; 3rd. rate. In the bottom or valley the soil is rich clay loam; Ist. and 2nd. rate.
 - loam; Ist.and 2nd.rate.
 No timber.
 Undergrowth, medium dense sage, and scattering service berry brush, which with shrubbery and grasses afford fair grazing.

Chains. Mountainous land on 43.60 chs.

September 7,1899.

September 8,1899:I set off 3703I' N.on the lat. arc; 5037'30" N.on the decl.arc; and at 8h58m a.m.,l. m.t., determine a true meridian with the solar, at the cor.of secs.9, I0, I5 and I6, heretofore described. Thence I run
N.00 2' W.bet.secs.9 and I0; ascending over S.E. slope of broken ridges and foot hills.

- I5.35 Wash about 20 lks.wide and IO ft.deep, drains E. 26.25 Trail bears S.E. and N.W.
- 26.30 Wood road bears E.and W.

46.II

47.50

62.50

80.00

Set a yellow sandstone I5xI5x5 ins., IO ins.in the ground, for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W.of cor.: Pits impracticable.

The cor.is on S.E.slope of main ridges, and on S.W. slope of spur running therefrom, about 100 ft.above the sec.cor.

Trail bears N.30° W.and S.30° E.;
Wash about 35 lks.wide and IO ft.deep,drains S.E.

Ravine about 2.00 chs.wide and 50 ft.deep,drains S.

- 58.45 Trail bears E.and W.
- 66.00 Enter medium dense cedars and nut pine on E.slope of high ridges.
- 74.00 Top of spur about I50 ft.above the I/4 sec.cor., on E.slope of ridge, bears E.and W.; descend.
 - Set a yellow sandstone I8xI2x6 ins., I2 ins.in the ground, for cor. of secs. 3, 4, 9 and I0, marked with 5 notches on S. and 3 notches on E. edges; from which A cedar IO ins.diam., bears S.76025' W.IIO lks.dist.,

marked T.38 S.,R.16 W.,S.9,B.T.;

A cedar I4 ins.diam., bears N.74053' E., I24 lks.dist., marked

T.38 S.,R.16 W.,S.3,B.T.

Chains. I also witnessed this cor. with a mound of stone 2 ft. base, I 1/2 ft.high, W.of cor. Land Mountainous and broken ridges and foot hills. Soil, gravelly and stony; 3rd.and.4th.rate. Timber, medium dense cedars and pines on last I4.00 chs. Medium dense undergrowth of sage, scattering oak and service berry brush, with shrubbery and grasses make fair grazing. Mountainous land on 80.00 chs. S.89059' E.on a random line bet.secs.3 and IO. Set temp. I/4 sec. cor. 40.00 Intersect N. and S.line, 2 lks. N. of the cor. of secs. 80.20 2,3,10 and II, heretofore described. Thence I run N.89058' W.on a true line bet.secs.3 and IO. Descend over low ridges and foot hills, cut with North Westerly. small hollows and washes draining and join main wash. Main wash at foot of low ridges, about 8 lks. wide and II.50 4 ft.deep, drains N.E. along foot of ridges. Ascend. Road from St.George to Hamblin and Modena, bears S.300 I6.2I W.and N.300 E. Trail bears S.50 E.and N.50 W. 31.08 Telegraph line running from St. eorge to Panacca, 31.13 bears S.50 E.and N.50 W.

- Set a yellow sandstone I8xI2x6 ins., I2 ins.in the ground, for I/4 sec.cor., marked I/4 on N.face; dug pits I8xI8xI2 ins., E. and W. of stone, 3 ft. dist.; and raised
 - I8xI8xI2 ins., E. and W. of stone, 3 ft.dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, N. of cor This cor. is on W. side; of valley on E. slope adjoining
 - Begin ascent of E.slope of high ridges, bears N.and S. Enter medium dense cedars and nut pine.
- 72.20 Top 6f spur about I25 ft.above the I/4 sec.cor., bears
 S.E.and N.W.; descend.

the foot hills, about 75 ft. above the sec. cor.

S.E.and N.W.; descend.

78.30 Ravine about I.00 ch.wide and 50 ft.deep, drains S.

60° E.; ascend from ravine along. N.E.slope of. spur.

40.IO

66.20

Chains.

80.20 The cor.of secs.3,4,9 and IO.

Land mountainous and broken r

Land mountainous and broken ridges and foot hills, and sloping valley.

Soil on ridges, gravelly and stony; on slope, clay loam

and gravelly;3rd.,4th.and 2nd.rate.
Timber, medium dense cedars and nut pine on W.I4.00

Medium dense sage undergrowth, scattering oaks and service berry brush, with shrubbery and grasses; which make fair grazing.

September 8,1899:At this cor.of secs.3,4,9 and IO, I set off 5034'. N.on the decl.arc; and, at IIh 58m a.m., l.m.t., observe the sun on the meridian; the re-

11.

From the cor.of secs.3,4,9 and IO,already described, I run

N.,0°2'.W.on a true line bet.secs.3 and 4,knowing from previous retracement on N.bdy.of Tp.that a closing cor.will be necessary.

Descend over N.E.slope of spur.

40.00

Mountainous land on 25.50 chs.

sulting lat.is 570 32'

I.00 Ravine about I.00 ch.wide and 25 ft.deep,drains S.800 E.; ascend.

29.50 Top of spur about 200 ft.above the sec.cor., on E.

slope of high ridges, bears E. and W.; descend over N.

- slope of spur and E.slope of high ridges.
 Set a yellow sandstone I4xI4x6 ins., IO ins.in the ground, for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W.of cor. Pits impracticable.
- Ravine about 70 lks.wide and 10 ft.deep,drains E.

 Ravine 35 lks.wide and 8 ft.deep,drains S.30° E.;

 ascend from ravine.
- 71.10 Intersect N.bdy.of the Tp.,71 lks.,S.89042' W.from the old cor.of secs.3,4,33 and 34,heretofore described in Notes of Retracement of this bdy.

Chains. Set a yellow sandstone I5xI0x5 ins., I0 ins.in the ground, for closing cor. of secs. 3 and 4, marked C.C. on S., with 3 grooves on E. and W. faces; and raised a mound of stone, 2 ft.base, I I/2 ft.high, S.of cor. pits impracticable. I destroy the marks on the old cor.of.secs.3,4,33 and 34, that pertain to secs. 3, and 4, and re-mark the same for cor.of secs.33 and 34, T.37 S., R. I6 W., only. Land mountainous and broken. Soil, gravelly and stony; 4th. rate. Timber, scattering cedars and nut pine. .. Scattering oak and serviceberry undergrowth, shrubbery and grasses; which afford fair grazing. Mountainous land on 71.10.chs. September .8, 1899. September 9,1899:I set off 37028 N.on the lat. arc;5015'30" N.on the decl.arc; and at 8h30' a.m.,1. m.t., determine a true meridian, with the solar, at the cor.of secs.4,5,32 and 33 on the S.bdy.of the Tp., heretofore described in Notes of the Survey thereof. Thence I run N..003' W.bet.secs.32 and 33... Ascend rapidly over S.E. slope of high broken ridges. Trail bears N.30° W.and S.30° E. 12.00 Ravine about I.00 ch.wide and 50 ft.deep,drains S.W. 38.60 Set a gray granite stone I8xI2x6 ins., I2 ins.in the 40.00 ground for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W.of cor. Pits impracticable. Cor.on S.E.slope of high ridge about I50 ft.above the sec.cor. 4I.65 Trail bears S.W. and N.E. Top of ridge about 200 ft.high, bears N.E. and S.W. 45.50.

Descend rapidly over broken N.W. slope of high ridges.

Mc.Godsey creek at N.W. foot of high ridges, about

10 lks.wide and 2 ins.deep, drains S.W.; thence along

creek bottom, gradually ascending.

1'4

67.20

,	Subdivisions of T.38 S., R.16 WContinued.
Chains.	
69, 50	Recross creek about IO lks.wide, drains S.10° E.
72.00	Recross same creek about 20 lks.wide, drains S.100
-	W.; ascend from creek over steep S.slope of high ridg
80.00	Set a gray sandstone I8xI2x6 ins., I2 ins.in the
15	ground, for cor. of seds. 28,29,32 and 33, marked with
X5.	I notch on S. and 4 notches on E.edges; and raised a
	mound of stone,2 ft.base, I I/2 ft.high, W.of cor.
A A	Pits impracticable.
	Cor.on S.slope of ridge about IOO ft.above the creek
	Land mostly mountainous and broken with about 5.00
	chs.nearly level along the creek bottom.
	Soil, gravelly and stony on the ridges with 5.00 chs.
•	loamy and gravelly soil in creek bottom; 4th. and 2nd.
1	rate.
	Timber, scattering cedars and nut pine on the ridges;
	black willows and cottonwoods along the creek.
) 	Undergrowth, oak and service berry brush on the ridge
	willows in the creek bottom; undergrowth, shrubbery
	and grasses afford good grazing.
•	Mountainous land on 75.00 chs.
•	
	E., on a random line bet.secs.28 and 33.
40.00	Set temp.I/4 sec.cor.,.
80.06	Intersect N.and S.line, 35 lks.S.of the cor.of secs.
	27,28,33 and 34,heretofore described.
	Thence I run 5.89645' W.on a true line bet.secs.28
	and 33.
	Descend over W.slope of ridge.
3.30	Bottom of hollow about 75 ft.below the sec.cor.,
	drains S.; ascend.
8.00	Top of spur about 75 ft.high on S.E.slope of ridge,
•	projects S.300 (E.; descend. over S.W. slope
31.60	Bottom of hollow about 100 ft.below top of last spur
	drains.S.; ascend on N.E.slope of ridges.
40.03	Set a volcanic stone I5xI0x4 ins., IO ins.in the

ground, for 1/4 sec.cor., marked 1/4 on N.face; and raised a mound of stone, 2 ft.base, I 1/2 ft.high, N.

of cor. Pits impracticable. Chains. Top of ledges on E.side of deep canon, bears N.300 E 50.00 and S.30° W.; descend abruptly over steep and rocky. Land to the the state of N.W.slope. The Mc. Godsey creek at foot of descent in canon, 70.46 about IO lks.wide with banks on either side about 15 ft.high, water about 4 ins.deep, drains S.300 W. Creek about 250 ft.below the ledges on E.side of canon. Ascend from creek over S.E. slope of high ridg-Ravine about 50 lks.wide and 25 ft.deep,drains S.700 76.00 arry 144. " The cor.of secs.28,29,32 and 33, about 75 ft.above 80.06 the creek. Land mountainous and broken. Soil, gravelly and stony; 3rd and 4th rate; No timber, except black willow and cottonwods along the creek, and scattering cedars on W.8.00 chs. Undergrowth of sage and service berry with shrubbery and grasses afford good grazing. Mountainous land on 80.06 chs. September 9,1899:At this sec.cor., I set off 5012' M.on the decl.arc; and at IIh 57m a.m., l., m., t., observe the sun on the meridian; the resulting lat.is Mark Land Strategy 28' 36 "N. N.,0° 3' W.bet.secs.28 and 29. Ascend abruptly over steep S.and S.E.slopes of high broken ridges. 26.00 Top of ascent on E.slope of ridge about 200 ft.above the sec.cor., bears N.W. and S.E.; descend over N.E. slope. Set a gray granite stone I5x8x6 ins., 10 ins.in the 40.00 ground, for I/4 sec. cor., marked I/4 on W.face; and

Set a gray granite stone I5x8x6 ins., IO ins. in the ground, for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W. of cor. Pits impracticable.

The cor. is on N.E. slope of ridge about I25 ft. below top of last ascent.

da wekananin asalah	
Chains.	
43.00	Trail bears W.and S.800 E.
43.60	Ravine at foot of descent about 50 lks.wide and 25
· ·	ft.deep and about 50 ft.below the 1/4 sec.cor., drains
4	S.80° E.; ascend over S.W.slope of ridges.
65.00	Top of ridge on E. slope of high mountain, bears S.
	85° E. and N. 85° W.; thence gradual descend over top 6
	of ridge sloping to E.
70.00	Begin rapid descent over N.slope of ridge.
80.00	Set a gray granite stone I6xI2x5 ins., II ins.in the
; -	ground, for cor.of secs.20,21,28 and 29, marked with
; ` ,	2 notches on S. and 4 notches on E.edges; and raised
:	a mound of stone, 2 ft.base, I 1/2 ft.high, W.of cor.
	Pits impracticable. Cor.is on N.slope of ridge
	about I25 ft.below top of same.
	Land mountainous and broken.
,	Soil, gravelly and stony; 4th.rate.
	No timber, except scattering cedars on first 4.00 chs
•	Scatteringundergrowth of oak and service berry with
	shrubbery and grasses in abundance afford good graz-
	ing.
	Mountainous land on 80.00 chs.
,	W.89045' E.on a random line bet.secs.21 and 28.
40.00	Set temp. I/4 sec.cor.
80.04	Intersect N.and S.line, 30 lks. N.of the cor.of secs.
•	21,22,27 and 28, heretofore described.
	Thence I run 5.89058 W.on a true line bet.secs.2I
	and 28.
, , ,	Ascend along N.E.slope of high ridge.
4.00	Top of ascent on N.E. slope about 50 ft. above the
	sec.cor., bears N. and S.; descend gradually over N.
. , ,	slope of ridge.
8.00	Commence very steep descent over W.slope of ridge
	bears N.and S.
20.20	W.foot of ridge in bottom of canon, about 200 ft.be-

low top of ridge, bears N. and S.; descend gradually.

21.50 Trail bears N. and S.

hains.	
22.00	Descend over perpendicular bank about 20 ft.high
	into creek bottom.
22.35	Mountain Meadow or Mc.Godsey Creek, about IO lks.wic
•	with water about 4 ins.deep, slow current , runs S.
	about I.00 ch., thence S.W.
24.40	Ascend perpendicular bank on W. side of creek botto
	bears N. and S.; ascend N. E. slope of ridges.
39.40	Trail bears N.E.and S.W.
40.02	Set a granite stone I2xI0x8 ins.,8 ins.in the grou
• • • • • •	for I/4 sec.cor., marked I/4 on N.face; and raised a
	mound of stone, 2 ft.base, I I/2 ft.high, N. of cor. Air
	This cor.is on N.E.slope of ridge about IOO ft.abo
	the creek.
	Ascend up Winding ravine which drains from this po
	point N.80° E.
6I.85	Leave ravine which drains S.850 E., and ascend on N
01,00	slope of ridge.
66.I5	Trail bears E.and S.40° W
68.00	Re-enter ravine, drains N. 450 E. about I.00 ch., ther
00.00	S.70° E.
72.00	Leave ravine drains S.85° E.; ascend on N.slope of
12.00	ridge.
80.04	The cor.of secs.20,21,28 and 29.
1	Land mountainous and broken, with about 4.00 chs.
水水	
	along creek bottom nearly level.
	Soil, gravelly and stony; 3rd and 4th rate
	No timber, except scattering cottonwoods and black
•	willows in creek bottom.
	Medium dense oak and scattering service berry brus
	shrubbery and grasses afford fair grazing.
	Mountainous land on 76.00 chs.
	N 00 m 1 W 1 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A
	N.003' W.bet.secs.20 and 21.
	Descend on N.slope of ridge .

5.00 Ravine at foot of descent about 50 lks.wide and IO f ft.deep,drains S.E.; ascend on S. and E. slopes of high ridges.

Chains.	
15.00	Top of ascent on E.slope of ridge about I50 ft.above
•	the sec.cor., bears E.and W.; descend along E.and N.E.
	slopes of ridges.
40.00	Set a granite stone I5xI2x8 ins., I0 ins.in the
-	ground, for I/4 sec.cor., marked I/4 on W.face; and
	raised a mound of stone, 2 ft.base, I I/2 ft.high, W.
	of cor. Pits impracticable.
49.00	Trail bears S.E.and N.W.
50.25	Ravine at foot of descent about I25 ft.below top
	of last ascent, about 50 lks.wide and I5 ft.deep,
1	drains E.; ascend over S. and S.E. slopes of ridges.
63.00	Ravine about 50 lks.wide and 8 ft.deep,drains S.60
	E.; spring about 2.00 chs.W.of line drains into ra-
	vine, forming small stream about 6 ins.wide and 2 ins
-	deep, sinks at about 3.00 chs. S.60° E.of line.
72.00	Top of ascent on E.slope of ridge, about IOO ft.
	high bears E.and W.; descend over, N.E. slope of ridges
78.25	Ravine about 50 lks.wide and 25 ft.deep,about I50 ft
•	below top of last ascent, drains S.E.; ascend.
80.00	Set a trachyte stone I8xI2x8 ins., I2 ins.in the
	ground, for cor.of secs. I6, I7, 20 and 2I, marked with
	3 notches on S.and 4 notches on E.edges; and raised
	a mound of stone, 2 ft.base, I I/2 ft.high W.of cor.
	Pits impracticable.
	This cor.is on steep S.slope of ridge, about 50 ft.
	above the ravine.
	Land mountainous and broken.
	Soil, gravelly and stony; 4th.rate.
	No timber.
	Undergrowth of sage, oak and service berry brush, with
	shrubbery and grasses afford godd grazing.
	Mountainous land on 80.00 chs.
	September 9,1899.
-	·.

40.00 Set temp. I/4 sec.cor.

80.06 Intersect N.and S.line, 7 lks.S.of the cor.of secs.

N.,89058 E.on a random line bet.secs.16 and 21.

Chains. 15,16,21 and 22, in the Mountain Meadow wash, I.00 ch.

N.of the witness cor. thereof, heretofore described. Thence L run

S.890 55' W.on a true line bet.secs. I6 and 21.

Ascend from wash over sloping bank about 25 ft.

high.

Top of W.bank of wash bears N. and S.; ascend over .50 low broken ridges and foot hills.

Wash about 25 lks.wide.and IO ft.deep, with small 9.40 stream of water about I link wide and 2 ins.deep,

drains S.500 E. Leave pasture. Road bears N.and S. 10.40 Top of ridge about 75 ft.high, bears S.500 E.and N. I5.60 -

50° W.; descend over W.slope of ridge. Wash about I5 lks.wide and IO ft.deepat foot of ri-25.00 about 100 ft.below the top, drains S.; ascend over S

E.and S.slope of ridges. Set a gray granite stone I8xI2x8 ins., I2 ins.in th 40.03 ground, for I/4 sec.cor., marked I/4 on N.face; and

raised a mound of stone, 2 ft.base, I I/2 ft.high, N. Pits impracticable. This cor.is on S. slope of ridge about 150 ft.above the sec.cor.

Ravine about I.00 ch.wide and 50 ft.deep, drains S. 4I.28 Top of ascent on S.E.slope of ridge, about 95 ft. 75.20

above the I/4 sec.cor., bears N. and S.; descend alor S.slope of ridge. The cor.of secs.16,17,20 and 21., about 25 ft.bel 80.06

> Land mountainous and broken ridges and foot hills Soil, gravelly and stony; 3rd and 4th rate: No timber.

> Medium dense sage and scattering oak undergrowth, shrubbery and grasses afford fair grazing.

> Mountainous land on 80.06 chs. September II, 1899: At this cor. of secs. 16, 17, 20 21, I set off 4026 30" N.on the decl.arc; and, at I

57m a.m.l.m.t., observe the sun on the meridian; th resulting lat is 37°30' // N.

top of last ascent.

Chains. N.,003 W.bet.secs.16 and 17.

Ascend rapidly over S.slope of ridge.

8.00 Top of ascent on E.slope of high ridges, about 125 ft.above the sec.cor., bears E.and W.; descend over E.slope of ridges.

18.00 Descend more rapidly on N.E. slope of ridges.

Ravine at foot of ridges, about I25 ft.below the top
50 lks.wide and 25 ft.deep, drains E.; ascend raptdly
on S.slope of ridges, from the ravine.

40.00 Top of ascent on E.slope of high ridges, about I50 ft above last ravine, bears E.and W.

Set a gray granite stone 20xI4x6 ins.,I5 ins.in the ground, for I/4 sec.cor.,marked I/4 on W.face; and raised a mound of stone,2 ft.base,I I/2 ft.high,W.of cor. Pits impracticable.

Descend over N.E. slope of ridges.

44.90 Trail bears E.and W. 66.20 Ravine about 50 lks.wide and 25 ft.deep,drains E.

70.75 Ravine at foot of ridges about 100 ft.below the I/4

sec.cor., about 50 lks.wide and 40 ft.deep, drains S.E Ascend from ravine over S.slope of ridge.

Set a red sandstone I5x8x8 ins., IO ins. in the ground for cor. of secs. 8, 9, I6 and I7, marked with 4 notches on S. and E. edges; from which cor.

A cedar I4 ins.diam., bears S.I6ºE.23 lks.dist., marked

T.38 S., R.16 W., S.16, B.T.

A cedar II ins.diam., bears N.11030 W.33 lks.dist.,

marked T.38 S.,R.16 W.,S.8,B.T.

I also raised a mound of stone, 2 ft. base I I/2 ft.

high, W.of cor.

80.00

Land mountainous and broken.

Soil, stony, and gravelly; 4th. rate.

Timber, scattering cedars on N.10.00 chs.

Undergrowth, scattering serviceberry brush; medium

dense oak undergrowth on Ist.25.50 chs. Undergrowth, shrubbery and grasses afford good grazing

Mountainous land on 80.00 chs.

Chains. N.89055 E.on a random line bet.secs.9 and I6. .. Set temp.I/4 sec.cor. 40.00 Intersect N. and S.line, 4 lks. S. of the cor. of secs. 80.04 9,10,15 and 16,heretofore described. September II,1899:At this sec.cor., I set off 370 31'30" N.on the lat.arc; 4º23' N.on the decl.arc; and determine a true meridian with the solar; at 4 h. P.M.1.m.t. Thence I run . S.89053' W.on a true line bet.secs.9 and I6. Ascend over E.slope of broken foot hills and ridges. Wash about I2 lks.wide and 4 ft.deep, drains S.E.; 8.45 begin ascent of ridges bears S.W. and N.W. Ravine about 1.00 ch.wide and 50 ft.deep, drains S. 22.30 Top of spur of S.E.slope of high ridge, bears N.300 23.25 W.and S.30° E.; descend over S.W.slope. Ravine about 40 lks.wide and 25 ft.deep, drains S.IOO 34.45 W.; ascend. Set a yellow sandstone I2xI0x5 ins.,8 ins.in the 40.02 ground, for I/4 sec.cor.; marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, N. of cor. from which cor. A nut pine,8 ins.diam., bears N.40 W,5I lks.dist., marked I/4 S.9,B.T. A nut pine IO ins.diam., bears S.3015' E.37 lks.dist, marked 10 0 10 10 12 0 12 I/4 S.I6,B.T. This cor.is on S.W.slope of ridge about I50 ft.above the sec.cor. Ravine about 50 lks.wide and 30 ft.deep.drains S.20 4I.30 Ravine about I.00 ch.wide and 20 ft.deep, drains S. 54.00 10° E.; trail in bottom of ravine follows course of of ravine. Trail bears N.W.and S.E. 6I.50 Ravine about 1.00 ch.wide and 200 ft.deep, drains S. 77,40 The cor.of secs.8,9,16 and 17. 80.04 Land mountainous and broken ridges and foot hills.

Soil, gravelly and stony; 4th. rate.

Chains. Timber, scattering cedars and nut pine on last 50.00 chs.

Dense sage, service berry and scattering oak undergrowth, shrubbery and grasses, which afford good grazing.

Mountainous land on 80.04 chs.

September II, 1899.

September 12,1899:I set off 3703I' N.on the lat.arc; 405'30" N.on the decl.arc; and, at 10h a.m., 1.m.t., determine with the solar a true meridian, at. the cor. of secs.8,9,16 and 17, already described. Thence I run $N.0^{\circ}3$ W., bet.secs.8 and 9; ascending rapidly over S. and S.W.slope of high ridges.

- 5.00 Trail bears S.E.and N.W. II.30 Ravine about I.50 chs.wide and IOO ft.deep,drains S.10 E.
- Set.a yellow sandstone 20xI4x8 ins., I5 ins.in the 40.00 ground, for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W. Pits impracticable.

This cor.is on S.W.slope of ridges about 200 ft. above the sec.cor.

41,25

64.75

80.00

- Top of ascent on E.slope of high ridges, bears 5.300 E.and N.300 W.; descend over N.E.and E.slopes of ridges.
- Ravine at foot of ridges , about IOO ft. below top of last ascent, about 50 lks. wide and 25 ft. deep, drains E.; ascend rapidly from ravine over S.slope of high ridges.
- Set a blue limestone I5x8x8 ins., IO ins.in the ground, for cor. of. secs. 4,5,8 and 9, marked with 5 notches on S. and 4 notches on E. edges; and raised a. mound of stone, 2 ft.base, I I/2 ft.high, W.of. cor. Pits impracticable.

Cor.is on southerly slope of high ridge about : IOO ft.above last ravine.

,	Subtractions of ".
(Land mountainous and broken.
Unains.	Soil, gravelly and stony; 4th. rate.
	Timber, scattering cedars and nut pine on Ist. 34.00
}	
;	chs. Scattering oak and service berry undergrowth, with
1	shrubbery and grasses afford fair grazing.
1	
	Mountainous land on 80.00 chs.
; }	
1	
# 2 2	
1	N.89053' E.on a random line bet.secs.4 and 9.
	Set temp. I/4 sec.cor.
80.08	Intersect N.and S.line, 20 lks. N. of the cor. of secs.
	3,4,9 and IO, heretofore described.
	September 12,1899:At this sec.cor., I set off 40
	3'30" N.on the decl.arc; and, at IIh56m a.m., l.m.t.,
	observe the sun on the meridian; the resulting lat.is
	37032' N.
	Thence I run
	N.89058' W.on a true line bet.secs.4 and 9
	Ascend rapidly on N.E.slope of high ridges.
17.00	Top of ascent about IOO ft.above the sec.cor., bears
•	N.and S.; descend over W.slope of ridge.
21.40	Ravine at W.foot of ridge about 75 ft.abelow top
	of ascent, about 50 lks. wide and 25 ft. deep, drains S.;
	ascend from ravine on S.E.slope of high ridges.
40.04	To To Division the
40.04	ground, for I/4 sec.cor., marked I/4 on N.face.; and
	raised a mound of stone, 2 ft. base, I I/2 ft.high, N. of
}	cor. Pits impracticable. Cor.is at top of ascent
1	on S.E. slope which bears N.W. and S.E., about I50 ft.
	above the sec.cor. Descend over S.W.slope of high
	ridges.
55.50	Ravine about 50 lks.wide and 50 ft.deep, drains S.300
50,00	E.; ascend from ravine over E.slope of ridges.
c# 00	Top of ascent, about 100 ft. above the ravine bears S.
. 67.00	E.and N.W.; descend over S.W. slope of high ridges.
`aa aa	
~ 80.08	
	Land mountainous and broken.

Soil, gravelly and stony; 4th.rate.

Timber, scattering nut pine and cedars. Chains. Medium dense undergrowth of sage, greasewood, service berry and oaks, with shrubbery and grasses which makes good grazing. Mountainous land on 80.08 chs. From the cor.of secs.4,5,8 and 9, above described I run N.003' W.bet.secs.4 and 5, on a true line, knowing from previous retracement of N.bdy.of Tp.that a closing cor. will be necessary. Ascend rapidly over S.W. and S. slopes of high ridges. I7.50 Top of high ridges on rim of basin, about 150 ft. above the sec.cor., bears S.I50 E.and N.I50 W.; thence over top of high ridge, gradually ascending. 26.00 Commence to descend over N.W.slope of high ridges, bears N.E. and S.W. 40.00 Set a yellow sandstone I8xI4x6 ins., I2 ins.in the ground, for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I 1/2 ft.high, W. of cor. Pits impracticable. 42.50 Foot of descent about 75 ft.below top of ridges, bears N.W. and S.E.; ascend on S.W. slope of ridges. 46.00 Top of ridge about 100 ft.high, bears E.and W.; descend. Intersect N.bdy.of the Tp.,67 lks.N.89057' W., from the 70.65 old cor.of secs. 4,5,32; and 33, as described in the retracement of N.bdy.of this Tp. Set a yellow sandstone I8xI0x6 ins., I2 ins. In the ground, for closing cor.of secs. 4 and 5, marked C.C. on S., with. 4 grooves on E. and 2 grooves on W.faces; and raised a mound of stone, 2 ft. base, I 1/2 ft. high, S.of cor. Pits impracticable. I destroy the marks on the old cor. of secs. 4,5,32 and 33 that pertain to secs. 4 and 5, and remark the. same for cor. of secs. 32 and 33, T. 37 S., R. 16 W., only.

> Soil, gravelly and stony; 4th. rate. No timber, except scattering cedars on Ist. 7.00 chs.

Land mountainous and broken.

Chains. Scatteringoak, service berry and sage undergrowth with an abundance of shrubbery and grasses afford fair grazing. Mountainous land on 70.65 chs. September 12,1899. and the second second . September I3, I899: I set off 37028. N.on the lat. arc: 3043. N.on the decl.arc; and, at 9h56ma.m., l.m.t. determine a true meridian with the solar at the cor. of secs.5,6,3I and 32,on the S.bdy.of the Tp.as described in the notes. of . Survey thereof. Thence I run N.003' W.bet.secs.3I and 32. Ascend rapidly over S.and S.W.slopes of high ridge. Top of ascent on S.W.slope of ridge, projects 5.00 P. S.250 W.; descend rapidly over W.and N.W.slopes of high ridges. Descend over perpendicular ledges about 25 ft.htgh, I8.50 bears N.E.and S.W. The Mc.Godsey creek at N.W.foot of high ridges, about 26.50 200 ft.below the top of ridges, about 3 lks.wide and 6 ins.deep, with rapid current, drains S.30° W.; ascend from creek over S. and S.W. slopes of high ridges. Ravine at the mouth of rock canon about I.00 ch.wide 27.25 and 50 ft.deep, drains S.700 E. Set a limestone I8xI4x6 ins., I2 ins.in the ground, . 40.00 for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W.of cor. Pits impracticable. This cor.is:on S.slope of high ridges about I50 ft.above the creek. Top of ridges about 50 ft. above the I/4 sec. cor., 43.50 bears N.E. and S.W.; descend over N.W. slope of ridges. Ravine abour 50 lks.wide and 25 ft.deep, drains W. 28.20 Ravine at foot of descent about 100 ft.below top of 76.00 ridges, about I.00 ch. wide and 75 ft. deep, drains W.; ascend rapidly from ravine. Set a gray granite stone I5x12x10 ins., I0 ins .in 80.00 the ground, for cor.of secs.29,30,31 and 32, marked

Chains. with I notch on S. and 5 notches on E. edges; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W. of cor.; from which cor. A cedar I2 ins.diam., bears S.84030'W.,50 lks.dist. marked Dieta T.38 S., R.16 W., S.31, B.T. A cedar IO ins.diam., bears N.250 W., 22 lks.dist., marked T.38 S.,R.16 W.,S.30,B.T. A nut pine, I2. ins.diam., bears S.360 E., 36 lks.dist., marked T.38 S., R.16 W., S.32, B.T. A nut pine, 8 ins.diam., bears N.34030' E., 42 lks. dist., marked T.38 S., R.16 W., S.29, B.T. Land mountainous and broken. Soil, gravelly and stony; 4th.rate. Timber, scattering cedars and nut pine, with black wil lows and cottonwoods along the creek. Scattering oak and serviceberry undergrowth with shrubbery and grasses afford fair grazing. Mountainous land on 80.00 chs. E., on a random line bet.secs.29 and 32. 40.00 Set temp. I/4 sec. cor. Intersect N.and S.line, I5 lks. N.of the cor. of secs. 79.96 28,29,32 and 33, heretofore described. Themce I run . $N.89^{\circ}54^{\circ}$ W.on a true line bet.secs.29 and 32. Ascend along S.and S.E.slopes of high ridges. 7.70 Ravine about 75 lks.wide and 40 ft.deep, drains S.300 E.; ascend from ravine. Top of spur on S.slope of high ridges, about 75 ft. 20.00 high, bears N. and S.; descend. over S.W. slope of high ridges

Wash at foot of descent, about IOO ft. below top of last spur, about 25 lks. wide and 6 ft. deep, drains S. I50W.; ascend from wash. Set a granite stone I2xIOx6 ins., 8 ins. in the ground

Trail bears N.W. and S.E.

23.90

for I/4 sec.cor., marked I/4 on N.face; and raised a mound; of stone, 2 ft.base, I I/2 ft.high, N.of; cor. Pits impracticable. Chains. Top of ridges about 200 ft above the section bears 60.00 N.20° E. and S.20° W.; descend rapidly over N.W.slope of ridge. Ravine about I.00 ch.wide and 50 ft.deep, about 200 74.00

ft.below top of ridge, drains S.500 W,; ascend rapidly from ravine over S.W. slope of ridges.

The cor. of secs. 29,30,31 and 32. 79.96 Land mountainous and broken.

Soil, gravelly and stony; 4th.rate. Timber, scattering nut pine and cedars.

Scattering undergrowth of sage, oak and service berry with shrubbery and grasses afford fair, grazing. Mountainous land on 79.96 chs.

September 13,1899:At. this. cor.of secs.29,30,31 and 32,I set off 3040'30" N.on the decl.arc; and, at 11h 56 a.m., 1.m.t., observe the sun on the meridian; the resulting lat.is 37028'36" N.

W.on a random line bet.secs.30 and 3I. Set temp. I/4 sec. cor. 40.00 Intersect W.bdy.of Tp.16 lks.S.of the cor.of secs. 80.70 25,30,31 and 36, heretofore described in Notes of Sur vey of this bdy. Thence I run S. 89053' E.on a true line bet. secs. 30 and 3I. Descend rapidly over rocky and broken E.slope of

Ravine about 100 ft.below the sec.cor., about 1.50 4.00 ch. wide and 25 ft. deep, in bottom of rock canon, drains S.E.; ascend from bottom of ravine over steep and rocky S.W.slope of ridges. Top of ridges about 250 ft.above the ravine , bears 10.00

S.E., and N.W.; thence over broken top of high ridges.

Commence to ascend of high knoll, bears S.E. and N.W. Х 35.00 Set a gray granite stone 20x12x6 ins.,15 ins.in the 40.70

Chains. ground, for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, N. of cor. Pits impracticable.

45.70

80.70

25.00

40.00

The cor.is on S.E.slope of knoll about I58 ft.high. Descend.

E.foot of knoll about IOO ft.below the I/4 sec.cor.,

bears N. and S.; descend rapidly over S.E. slope of

high ridges.

Ravine about 1.00 ch.wide, and 40 ft.deep, about 200 69.70 ft.below the I/4 sec.cor., drains S.30° E.; ascend

rapidly from ravine over rocky Westerly slope. Top of ascent on E. side of ravine and hollow, about 78.70 60 ft. above the bottom of ratine, bears N. and

> descend. The cor.of secs.29,30,31 and 32,about 50 ft.below top of last ascent.

Land mountainous and broken. Soil, gravelly and stony; 4th.rate.

Timber, scattering cedars and nut pine on W. 4.00 chs and E.I4.00 chs. Medium dense oak and service berry undergrowth, with

shrubbery and grasses in sufficient quantity to make fair grazing. Mountainous land on 80.70 chs.

N.,003' W.bet.secs.29 and 30.

Ascend over S.W. and S. slopes of high ridges. Top of ridge about I50 ft.above the sec.cor.bears

S.850 E. and N.850 W.; descend over N.E. slope of rid ges.

Set a porphyry stone I4xI0x8 ins., IO ins.in the ground, for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I 1/2 ft.high, W.

of cor. Pits impracticable. This cor.is on N.E. slope about 50 ft. below top of

ridge.

49.00 Ravine about 80 lks.wide and 50 ft.deep, drains S. 70° W.

		Subdivisions of T,38 S,,R.16 WContinued.
· · · · · · · · · · · · · · · · · · ·	Chains.	70° W.
	72.00	Ravine about I.50 ch.wide and 50 ft.deep,drains S.W. Ascend from ravine.
_	80.00	Set a gray granite stone I4xI2x4 ins., IO ins.in the ground, for cor. of secs. I9, 20, 29 and 30, marked with
		2 notches on S. and 5 notches on E. edges; and raised.
	- Controlled to Africant	a mound of stone,2 ft.base, I I/2 ft.high, W.of.cor.
	1	Pits impracticable. Cor.on steep S.slope of ridge
	-	about 75 ft.above the ravine.
	1	Land mountainous and broken. Soil, gravelly and stony; 4th.rate.
	-	No timber, except scattering cedars and nut pine on
		Ist.5.00 chs. Medium dense oak and service berry undergrowth, with
		shrubbery and grasses make fair grazing.
		Mountainous land on 80.00 chs.
		September 13,1899.
	-	S.89°54' E.on a random line bet.secs.20 and 29.
	40.00	Set temp. I/4 sec.cor.
	79.92	Intersect N.and S.line, IO lks. S. of the cor. of secs.
		20,21,28 and 29, heretofore described.
		Thence I run
		N.89° 58' W., on a true line bet.secs.20 and 29.
	And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	Ascend along steep N.slope of ridges.
	20.00	Top of spur on B. slope of ridge, about 100 ft. above
		the sec.cor., bears S.IOO E.and N.IOO W.; descend over
		W.and S.W.slopes of ridges.
	35.50	Foot of descent about 75 ft.below top of spur, falls
		rapidly S.20° E.; ascend
	39.96	Set a gray granite stone I5xI2x6 ins., I0 ins.in the
	;	ground, for I/4 sec.cor., marked I/4 on N.face; and
	t .	raised a mound of stone, 2 ft. base, I 1/2 ft. high, N.
	<u>;</u>	of cor. Pits impracticable.
	47.60	Top of high ridges on S.W.slope, bears, N. and S. 100W.
	•	Descend rapidly over W.and N.W.slopes of ridges.

.71.65 Wash about 35 lks.wide and 10 ft.deep, at W.foot of

high ridges about 200 ft.below the top, drains S.W.;

ascend steep S.W.slope.

74.00 Top of ascent on S.slope of high ridges, bears N.E. and S.W.; descend.

Ravine about 75 lks.wide and 50 ft..deep, drains S.W. Ascend from ravine.

79.92 The cor.of secs.19,20,29 and 30, about 75 ft. above last ravine.

Land mountainous and broken.
Soil, stony and gravelly; 4th.rate.

No timber.

Ground covered with dense growth of oak and service berry undergrowth, shrubbery and grasses, which af-

Mountainous land on 79.92 chs.

ford good grazing.

80.64

I4.00

16.24

N.89⁰53' W.on a random line bet.secs.I9 and 30. 40.00 Set temp.I/4 sec.cor.

September I4,I899:At this temp.I/4 sec.cor.,I set off 3°18'. N.on the decl.arc;and,at llh56m a.m., l.m.t.,observe the sun on the meridian; the resulting lat.is 37°29'. N.

Intersect W.bdy.of the Tp.15 lks.S.of the cor.of secs.19,24,25 and 30, heretofore described in Notes of Survey of this bdy.

Thence I run

S.89047 E.on a true line bet.secs.19 and 30. Descend over E.and N.E.slopes of high ridges.

Trail bears N.30° W.and S.30° E.

Ravine at foot of descent about IOO ft.below the sec.cor., about 75 lks.wide and 25 ft.deep, drains S.

IO° E.; ascend over S.W.slope of ridges.

Top of spur on S.W.slope of ridge about 75 ft.high, bears N.and S.; descend over S.E. and E.slopes of broken ridges.

40.64 Set a gray granite stone I5xI2x6 ins., I0 ins.in the ground, for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, N. of cor.; Pits impracticable. This cor. is near E.foot

of high ridges about 200 ft.below the seccor. 43.64 Wash at foot of descent about 50 lks.wide and 10 ft. deep, with small spring in bottom forming a creek about I lk.wide and 2 ins.deep, which drains with course of wash S.IOO W.; ascend from wash over S.W. and S.slopes of ridges. Wash about 50 lks.wide and 6 ft.deep, drains S:200 W. 45.64 Top of spur of ridge on S.slope of high mountain, 58.50 bears N. and S.; descend over E. and S. slopes. Ravine about 50 lks.wide and 25 ft.deep, drains S.E. 67.00 The cor.of secs.19,20,29 and 30, about 125 ft.below 80.64 top of last spur of ridge. Land mountainous and broken. Soil, stony and gravelly; 4th.rate. No timber. Ground covered with medium dense sage, oak and service berry brush, with birch and willows along the creek; wild grape vines are also found along the creek and wash Shrubbery and grasses in abundance, . which make excellent grazing for horses and cattle, and also for wild deer which graze on the ridges and water at the spring near the I/4 sec.cor. Mountainous land on 80.64 chs. N..003 W.bet.secs. I9 and 20. Ascend rapidly over S.E. and S. slopes of high ridges. Top of ridges about 200 ft.above the sec.cor., bears 37.50 E.and W.; descend over N.slope of ridges. Set a volcanic stone I2xI0x5 ins.,8 ins.in the 40.00 ground, for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I I/2; ft.high, W.of cor. Pits impracticable. The cor.in on N.slope of high ridge about 75 ft.below top.of same. Ravine at foot of descent about 95 ft.below top of 47.30 ridge, about 50 lks.wide and 25 ft.deep, drains N.E.; ascend over S.E. slope of ridge. Trail bears E. and W. 57.00 Top of ridge about IOO ft.above the ravine, bears S.F. 65.00

and N.W.; descend over N.E., S.W. and W. slopes of rid-Chains. ges. 80.00 Set a porphyry stone I2xI0x6 ins.,8 ins.in the ground, for cor. of secs. 17, 18, 19 and 20, marked with 3 notches on S. and 5 notches on E. edges; and raised a mound of stone, 2 ft.base, I.I/2 ft.high.W.of cor. Pits impracticable. The cor.is on W.slope of high ridge about I50 ft.below top of last ridge. Land mountainous and broken. Soil, gravelly and stony; 4th. rate. No timber. Ground covered with undergrowth of oak and serviceberry, shrubbery and grasses, which afford good graz-Mountainous land on 80.00 chs. S.89058' E.on a random line bet.secs.17 and 20. 40.00 Set Temp. I/4 sec.cor. Intersect N. and S.line, I8 lks. S. of the cor. of secs. 79.94 16,17,20 and 21, heretofore described. September I4, I899:At this sec.cor., I set off 370 30' N.on the lat.arc; 30 15' N.on the decl.arc.; and, at 5^{h} p.m., l.m.t., determine a true meridian with the solar; thence I run S.89054' W., on a true line bet.secs, I7 and 20. Descend over S.W.slope of ridge. Ravine at foot of ridge about 75 ft.below the sec. 2.50 cor., about 50 lks. wide and 10 ft.deep, drains S.E.; small spring in bottom of ravine forms creek about I lk.wide and I inch deep, and runs in bottom of ravine several chains and sinks. Ascend over N.E. and N. slopes of high ridges.

Trail bears N.80° W.and S.80° E.

Set a gray granite stone I5xI0x6 ins., I0 ins.in
the ground, for I/4 sec.cor., marked I/4 on N.face;
and raised a mound of stone, 2 ft.base, I I/2 ft.high,
N.of cor. Pits impracticable. Cor.is on N.slope of
ridge about I25 ft.above the ravine.

33.00

39.97

hains.	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
40.75	Trail bears N.70° E.and S.70° W.
42.00	Ravine about 1:00 ch.wide and 4:ft.deep,drains N. B.
	Spring branch about 3.00 chs.S., forms creek about
	I lk.wide and 2 ins.deep, runs in ravine and sinks
	at about 5.00 chs., from head of spring. A. A. A. A. A. A. A. A. A. A. A. A. A.
	Ascend rapidly over S.E. and E. slope of high ridge.
75.00	Top-of ridge about 75:ft.above the 1/4 sec.cor.,
	bears H. and S.; descend over W. slope of ridge
79.94	The cor. of secs. 17, 18, 19 and 20, on W. slope of ridge
	about 100 ft.below top of ridge.
	Land mountainous and broken.
.)	Soil, gravelly and stony; 4th. rate. I
	No timber.
	Dense undergrowth of oak and serviceberry brush,
	shrubbery and grasses afford good grazing.
	Mountainous land on 79.94 chs
ł ;	September 14,1899.
,	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
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	the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th
, ;	September 15,1899: I set off 37030' N.on the
\$ \$	lat.arc;2057 30" N.on the decl.arc;and, at 9h a.m.
š Ž	1.m.t., determine a true meridian with the soluriat
;	the cor.of secs.17,18,19 and 20, heretofore describe
{ 1 }	Thence I run
	N.89° 47' W.on a random line bet.secs.18 and 19.
40.00	Set temp. 1/4 sec. cor.
80.54	Intersect W.bdy.of Tp.,23 lks.N.of the cor.of secs
4	13,18,19 and 24, heretofore described in Notes: of
•	Survey of this bdy.
•	Thence I run
	S.,89057 E.on a true line bet.secs. 18 and 19 ju
	Descend over E.slope of high ridge.
12.49	Trail bears N.E. and S.W.
*	Trail at foot of ridge about 125 ft.below the sec.
16.54	
16.64	bears S.W. and N.E.; foot of ridges as same course as trail.

ascend on N.W.slope of high ridge

Chains. Head of Hard Scrabble Springs bears S.about I5.00 chs. 38.69 Top of mountain about 300 ft.above the Ravine, bears - N. and S.; thence over top of mountain, gradually as-cending. 40.54 Set a gray granite stone I5xI2x8 ins.. IO ins.in the ground, for I/4:sec.cor., marked I/4.on N.face; and raised a mound of stone, 2 ft. base, I I/2 ft. high, N. of cor. Pits impracticable. 42.54 Descend over E.slope of mountain or ridges, bears N. and S. 59.24 Ravine at foot of descent, about 225 ft. below...top. of ridge, about 50 lks.wide.and 25 ft.deep, drains N. 400 EQ Ascend. 64.79. Top of spur on N.W.slope of ridge, about IOO ft.high bears N.300 E.and S.300 W.; descend over E.slope of spur and ridges.. . Ravine at foot of descent, about IOO ft.below top of 79.54 last spur, about 50 lks. wide and IO ft. deep, drains N. 100 W.; ascend from ravine on W.slope of high ridge. The cor.of secs. I7, I8, I9 and 20, about 50 ft. above 80.54 the ravine. Land mountainous and broken. Soil, stony and gravelly; 4th.rate. No timber. Medium dense oak and service berry undergrowth, with shrubbery and grasses in abundance, afford fair grazing. Mountainous land on 80.54 chs. . . N.,003' W.bet.secs.17 and 18. Descend over W.and N.W.slope of ridge. Ravine about 50 ft.below the sec.cor., 50 lks.wide and I4.20 10 ft.deep, drains N.E.; ascend over S.E. slope of ridge. |Top of ridge about IOO ft.above the ravine, bears N. 29.50 E. and S.W.; descend over; N. Slope of ridge.

E. and, W.; ascend. Br. Oak and The C. Carpan gray of Top of ascent, about 75 ft. above N. foot, of ridge, 37.50

31.25 N.foot of ridge about 60 ft.below the top, bears

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Subdivisions of T.38 S., R.16 W.-Continued.

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Chains, bears N.E.and S.W.; descend over N.E.slope.

- 40.00 Set a red sandstone I8xI2x6 ins., I2 ins.in the ground, for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W. of cor. Pits impracticable.
- 44.80 Ravine at foot of ridges about 50 ft.below top of last ascent,50 lks.wide and 20 ft.deep,drains S.400 E.;ascend over S.E.slope of ridges.
- 62.35 Ravine about 50 lks.wide and 25 ft.deep,drains S.W. Enter medium dense cedars, bears. N.E. and S.W.
- 71.00 Leave cedars bears E.and W.
- 80.00 Set a white limestone I2xI0x8 ins.,8 ins.in the ground, for cor. of secs. 7,8,17 and I8; marked with 4 notches on S. and 5 notches on E. edges; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W. of cor.

Pits impracticable. Cor.is on top of high mountain, sloping Southeasterly., about I25 ft. above the I/4 sec.cor.

Land mountainous and broken.

Soil, gravelly and stony;4th.rate

Timber, medium dense cedars on 8.65 chs,

Undergrowth, oak and service berry, which with grasses and shrubbery afford fair grazing.

Mountainous land on 80.00 chs.

September 15,1899:At this cor.of secs.7,8,17 and 16,1 set off 2053 30" N.on the decl.arc;and,at 11^h 56^m a.m.,l.m.t.,observe the sun on the meridian; the resulting lat.is 37031'. N.

N.69°54' E. on a random line bet.secs.8 and I7.

40.66 Set temp. 1 /4 sec.cor.

79.96 Intersect N. and S.line, 27 lks.N. of the cor. of secs. £,9,16 and I7.

Thence I mu.

W.,890f4' W.on a true line bet.secs.8 and I7,

Ascend over 3.slope of high ridges.

19.00 Ravine about 1.00 ch. ride and 50 ft. deep, drains S.; ascend along steep S.E. slope of high ridges.

Subdivisions of T.38 S., R.16 W.-Continued.

```
Chains.
29.75
        Ravine about I.00 ch.wide and 25 ft.deep, drains S.
        about 50 lks., thence E.; ascend from ravine over N.E.
        slope of high ridges.
 39.98
        Set a yellow sandstone I5x8x5 ins., IO ins.in the
        ground, for I/4 sec.cor., marked I/4 on N.face; and
        raised, a mound of stone, 2 ft.base, I I/2 ft.high, N.
        of cor. from which cor.,
        A lone cedar IO ins.diam, bears N.5I I/20 W.,71 lks.
        dist., marked
        1/4 S.8, B.T.
        The cor.is on N.E.slope of high ridges about I25 ft.
        above the sec.cor.
        Ravine about 50 lks.wide and 30 ft.deep, drains N.E.;
6I.50
        thence on E.slope of ridge, still ascending.
71.20
        Trail bears N.E. and S.W.
75.00
        Top of ascent on top pfhigh ridge &r rim of basin
        about 100 ft.above the 1/4 sec.cor., bears N.E. and S.
        W.;descend gradually over top of ridge.
        The cor. of secs. 7,8,17 and 18.
79.96
        Land mountainous and broken.
        Soil, gravelly and stony; 4th. rate.
        Timber, medium dense cedars on E.30.00 chs.
        The land is covered with oak and service berry under-
        growth, shrubbery and grasses, which afford good graz-
        ing.
        Mountainous land on 79.96 chs. .
       N.,89^{\circ}57' W.on a random line bet.secs.7 and I8.
       Set temp. I/4 sec. cor.
40.00
       Intersect W.bdy.of Tp., I8 lks. N. of the cor. of secs.
80.46
       7, 12, 13 and 18, heretofore described in Notes of Sur-
       vey of this bdy.
       Thence I run
```

IO.20 Wash at foot of descent about I2 lks.wide and 5 ft. deep, and about 75 ft.below the sec.cor., drains N.700

Descend over N.W. slope of ridge.

N.890 55 E.on a true line bet.secs.7 and I8.

Subdivisions of T.38 S., R.16 W. LContinued. W.; ascend over steep N.W.slope of high ridge. Chains. Top of ridge about 200 ft.high, bears. N. 250 E. and S. 33.00 25° W.; descend over S.E.slope of ridge. Set a granite stone I4xI0x6 ins., I0 ins.in the 40.46 ground, for I/4 sec.cor., marked I/4 on N. face; and raised a mound of stone, 2 ft. base, I.I/2 ft.high, N. of cor. Pits impracticable. about 75 ft.below top of ridge. Wash at foot of ridge, about 60 ft. below the I/4 sec. 54.00 cor.,12 lks.wide and 4 ft.deep,drains N.W.; ascend over N.W.slope of ridges. Top of spur on N.W.slope of ridge about 75 ft.high, 60.50 bears S.I50 W.and N.I50 E.; descend over S.E.slope. Foot of descent, about 70 ft. below top of spur, bears 68.50 N.and S.; ascend on W.slope of divide. The cor.of secs.7,8,17 and I8.4 80.46 Land mountainous and broken.... Soil, gravelly and stony; 4th.rate. No timber. Land covered with dense oak and serviceberry undergrowth, shrubbery and grasses, which afford fair grazing. Mountainous land on 80.46 chs. september 15,1899. $N.0^{\circ}3^{\circ}$ W.bet.secs.7 and. 8. Ascend over S.E.slope of high ridge. Top of ridge about 50 ft.above the sec.cor., bears N. W. 5.00 and S.E.:descend over N.E.slope of ridges. Trail bears N.W. and S.E. 37.25 Wash at foot of descent about IOO ft.below top of ... 37.35 ridge, about 20 lks.wide and 6 ft.deep, drains N.W.; ascend over S.W.slope of ridge. Set a yellow sandstone I8xI2x6 ins., I2 ins.in the ... 40.00 ground, for 1/4 sec.cor., marked 1/4 on W.face; and raised a mound of stone, 2 ft.base, I 1/2 ft.high, W.of cor. Pits impracticable. Cor.on.S.W.slope about 50 ft.above the wash. Top of spur on S.W.slope about 100 ft.high, bears E. 45.60

Subdivisions.of T.38 S.,R.16 Wy-Continued

•	Subdivisions of T.38 S., R.16 WContinued.
Chains.	
63.00	
64.00	Trail bears N.W. and S.E.
72.20	Foot of descent about IOO ft.below the I/4 sec.cor.,
•	and ravine about 50 lks.wide and 10 ft.deep, drains
,	S.W.; ascend over S.E.slope of ridge.
80.00	Set a granite stone I8xI2x6 ins., I2 ins.in the ground
·	for cor.of secs.5,6,7 and 8, marked with 5 notches on
•	S.and E.edges; and raised a mound of stone, 2 ft.base,
	I I/2 ft.high, W.of cor. Pits impracticable.
	The cor.is on S.E.slope of high ridge, about 100 ft.
	above foot of last descent and ravine.
	Land mountainous and broken.
	Soil, stony and gravelly; 4th.rate.
	No timber.
	Heavy oak and service berry brush with thick shrub-
	bery and grasses afford good grazing.
	Mountainous land on 80.00 chs.
,	
	S.89°54' E.on a random line bet.secs.5 and 8.
40.00	Set temp.I/4 sec.cor.
79.92	Intersect N.and S.line,25 lks.S.of the cor.of secs.
	4,5,8 and 9,heretofore described.
	Thence J run
	S.,89055 W.on a true line bet.secs.5 and 8.
•	Descend over S.and S.W.slopes of high ridge.
10.10	Ravine at foot of descent about 75 ft.below the sec.
	cor., about 50 lks. wide and IO ft. deep, drains S.;
	ascend over N.E.slope of ridge.
26.00	Top of ridge and divide about IOO ft.above the sec.
	cor., bears N.E. and S.W.; descend over N.W.slope of
,	divide and high ridges.
	On S.slope of high ridges, still descending.
39.96	Set a quartzite stone I4xI2x8 ins., I0 ins.in the
	ground, for I/4 sec.cor., marked I/4 on N.face; and
	raised a mound of stone, 2 ft. base, I I/2 ft.high, N.

Pits impracticable. Cor.is on S.slope of

high ridge about 100 ft.below top of ridge and

... Subdivisions of T.38 S., R.16 W. - Continued.

divide. Chains.

Ravine at foot of ridges about 75 ft.below the I/465.60

sec.cor., about 75 lks.wide and 25 ft.deep, drains S.; ascend over S.E.slope of ridge.

Top of spur on S.E. slope of ridge about 100 ft. high, 73,00 bears S.W. and N.E.; descend over N.W. slope of spur.

Ravine at N.W.foot of spur, about 75 lks.wide and 25 77.IO

ft.deep,drains S.W.; ascend over steep S.E.slope of

high ridge.

The cor.of secs.5,6,7 and 8,on S.E.slope of ridge 79.92

about 100 ft.above last ravine.

Land mountainous and broken.

Soil, gravelly and stony; 4th.rate.

Timber, scattering cedars on Ist. IO. 00 chs.

Scattering oak and service berry undergrowth, and dense shrubbery, with grasses, which afford good grazing. Mountainous land on 79.92 chs.

80.44

Set temp. I/4 sec. cor. . 40.00 September 16,1899:At 60.00 chs.W.of the cor.of secs.5,6,7 and 8, on this random line, I set off 20 N.on the decl.arc; and, at llh55m a.m., l.m.t.,

S.,89°55' W.on a random line bet.secs.6 and 7.

observe the sun on the meridian; the resulting lat. is 37032': N. Intersect W.bdy.of Tp.,4 lks.S.of the cor.of secs. I, 6, 7 and I2, heretofore described in notes of Survey of this bdy. Thence I run

 $N.,89^{\circ}57'$ E.on a true line bet.secs.6 and 7. Descend over S.E. and S. slopes of low ridge. Ravine about 25 lks.wide and IO ft.deep, drains N.

Creek about 2 lks.wide and 4 ins.deep, clear fresh . I6.24 water, drains N.750 W.; heads S.750 E. about 3.00 chs.

Trail bears N.600 W.and S.600 E.; ascend over W.and S. 21:44

W.slopes of ridges. Set a gray granite stone I5xI2x8 ins., I0 ins .in the 40.44

Subdivisions of T.38 S., R.16 W.-Continued.

Chains. ground for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, N... of cor. Pits impracticable.

Cor.is on S.W.slope of high ridge about 100 ft.above the creck, and about 70 ft.above the sec.cor.

- Top of spur on S.W.slope of high ridge, about 100 ft. above the I/4 sec.cor., bears N. and S.; descend over S.E. slope of spur and ridge.
- Ravine about 50 lks.wide and 25 ft.deep, at foot of descent, drains S.W.; ascend over N.W.slope of ridges.
- 77.44 Top of ascent on S.slope of high ridge, about 100 ft. above the ravine, bears S.600 W.and N.600 E.; descend over S.E.slope of ridge.
 - 80.44 The cor.of secs.5,6,7 and 8, about 50 ft.below top of last ascent.

Land mountainous and broken ringes.
Soil, gravelly and stony with about 5.00 chs.along the creek loamy;4th.and 2nd.rate.

No timber, except very few scattering cottonwoods along the creek.

The ground is covered with oak and service berry undergrowth shrubbery and grasses and along the creek with birch and willow; good grazing.

Mountainous land on 80.44 chs.

September I6, I899: At this cor. of secs. 5, 6, 7 and 8, already described, I set off 370 32' N., on the lat.arc.; 20 28' N. on the decl.arc; and, at 4h p.m., l. m.t., determine a true meridian with the solar; thence I run

N.,003' W.on a true line, bet.secs.5 and 6, knowing from previous retracement of N.bdy.that a closing cor.will be necessary.

Ascend over S.E.slope of high ridge.

- 9.00 Top of ridge and divide, about IOO ft. above the sec. cor., bears N.E. and S.W.; descend over N.W. slope of ridges.
- 17.30 Trail bears N.E. and S.W.

Subdivisions of T.38 S., R. 16 W.-Continued.

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Chains. On N.E.slope of ridges, still descending. 27.00 Trail bears E.and W.; cabin bears W.about 6.00 chs.; 34.00 fenced garden of about 4x4 chs., W. of cabin; Twin springs, bears N.E. of cabin about I.00 and 3.00 chs. respectively, drains S.W. to garden, forming creek I lk.wide and 4 ins.deep, and when not in use runs from garden Northwesterly in a wash and hollow. Unable to find present claimant to these improvements. Ravine about 50 lks.wide and 25 ft.deep,drains N.150 44.85 Ravine about 50 lks.wide and IO ft.deep, drains N. 53.20 20° W. Ravine about 50 lks.wide and 30 ft.deep,drains N.W. 66.90 Intersect N.bdy.of Tp., I. II ch. W. of the old cor. of 70.70 secs.5,6,3I and 32, heretofore described in Notes of Retracement of this bdy. Set a yellow sandstone 24x8x6 ins., I8 ins.in the groun. for closing cor.of secs.5 and 6, marked C.C.on S., with 5 groores on E. and I groove on W.faces; and raised a mound of stone, 2 ft.base, I I/2 ft.high, 5.of corner. Pits impracticable I destroy the marks on the old cor.of secs.5,6,31 and 32, that pertain to secs. 5 and 6, and remark the same for cor.of secs.31 and 32, T.37 S., R.16 W., only. Land mountainous and broken ridges. Soil, gravelly and stony; 4th.rate. Small tracts of about 5 acres near Twin springs, loamy and suitable for farming and gardening; 2nd. rate. Ground covered with oak and service berry undergrowth and shrubbery and grasses and especially suitable for grazing purposes. Timber, scattering cedars on N.33.00 chs. Mountainous land on 70.70 chs. September 16,1899.

> Mayhew H. Dalley U.S. Geputy Si.

Subdivisions of T.38 S., R.16 W.-Continued.

GENERAL DESCRIPTION.

The S.bdy.of this Tp.lies along low ridges, narrow valley and high mountain range on the E.; narrow valley, low ridges and high mountain range on the central part; and high mountain range and broken ridges cut with the Mc.Godsey creek on the W. The W.bdy.of the Tp.ascends from S.W.corner thereof over high mountain and ridges cut with deep canons or ravines on the S.; and Central parts; thence descends over high mountain ridges and knolls and low broken ridges to the N.W. cor.of Tp. The H.bdy.of the Tp., ascends from the N.W cor.of Tp.over low broken ridges on the W.to top of high mountain range on the Central part, thence descends over E.slope and crosses narrow valley and low ridges on the E. Ascending from the H.E.cor.of a the Tp., the E.bdy.line crosses low broken ridges on the H., high mountain range cut with deep canon or ravine on the Central part, thence descends over high mountain and broken ridges to the S.E.cor.of the Tp.

The interior surface is mostly made up of high mountain ranges and ridges cut with deep canons or ravines, with low ridges and narrow valley running from E. to S. through the Central part of the Tp., and a narrow valley in the S.E. part of the Tp.

The Mountain Meadow creek, known in the Southwestern part of the Tp.as the Mc.Godsey creek, cuts through the Central part of the Tp., from Northeasterly to Southwesterly, running through a deep narrow gorge or canon and forming the principal sourse of drainage of the interior of the Tp.

The soils of this Tp., though generally gravelly and stony, are rich, and produce undergrowth, shrubbery and grasses in abundance, which afford good grazing throughout the Tp.

. There are a number of small springs distributed . through the township, which, with the Mountain Meadow

Subdivisions of T.38 S., R.16 W.-Continued.

and Mc.Godsey creek, in the Central and S.W.part,
Vance's creek in the S.E., Kane Springs in the S.Central, Burgess Creek in the Central parts, and Hamblin
Creek, crossing the M.E. cor. of the Tp., furnish good
watering places for the bands of horses, herds of cattle and wild deer and antelope ranging in this and
adjoining townships.

The lands in the township are mostly suitable for

The lands in the township are mostly suitable for grazing purposes. There is a narrow strip of good farming and pasture land along the Mountain Meadow creek in secs. 15,16,21 and 22, enclosed with wire fence and occupied by Mr. Abe Burgess with his family, for farming gardening and pasturage. His improvements consisting of dwelling house near center of sec. 15, fenced garden, corralls, stackyard etc. with fenced fields and pastures, reservoirs and ditches, and open cuts into springs of water, are of the value of about \$2000.00.

There, is a small tract of farming land in the central part of sec.36, mostly occupied by Mr. Vance and family. His improvements consists of cabins, corralls, stackyard, reservoir, ditches and about I5 acres fenced and cultivated to farm products, or chard and garden, and pasture, and are of the value of about \$\\$1000.00.

A narrow strip of land near Kane Spring adjoining the cor. of secs. 26,27,34 and 35, of about IO acres is fenced and occupied by Mr.B. Young. His claim con sists of cabin, corrall, reservoir, ditches, fencing and about 5 acres of land cultivated to vegetable and garden products and is worth about \$200.00.

Twin Spring Claim in the E.Central part of sec.
6, consists of cabin, corrall, small garden, small reservoir and cuts in side of mountain upening out springs and is of the value of about \$100.00.

This claim was unoccupied during the time of mak

This craim was unoccupied during the time of ma

Subdivisions of T.38 S.-R.16 W.-Continued.

ing the survey, and I was unable to determine the name of the present claimant.

Scattering cottonwood, black willow and ash timber grows along the Mountain Meadow and Mc.Godsey creek; and cedar and nut pine timber grows either scattering or medium dense nearly all over the township, being more dense on the high mountains and ridges in the S.E., S. Central, Central, E. Central and N. Central parts.

The main wagon road from St.George to Modena and telegraph line connecting St.George with Hebron and Panacca winds through the Central part of the Tp. from S.to M. Emigrants en route to California during the "Gold Excitement", travelled on a Southerly route through this Tp., finding good watering places and plenty of good grazing for their animals; and herein lies what is known as the "Mountain Meadows" where a Company of Arkansas emigrants was slaughtered by the ambushed Indians, in the year 1857. The Mountain Meadow Monument built of loose granite and trachyte stone near the center of the Tp., now falling to pieces, marks the burial place of the slaughtered dead. Mr. Abe Burgess has planted shade trees around the monument, and is taking particular pains to protect the remains of the dead and to beautify the surroundings.

There are no stone quarries, lime quarries or lime kilns in the township; but most of the ridges carry a good quality of trachyte, granite or sandstones, suitable for building purposes; and fragments of lime stone is scattered over the surface in various parts of the Tp, being especially noticeable on the high ridges in the N.Central part thereof.

There are no indications of coal and no mineral locations in the Tp. Along the Mc.Godsey creek in secs.28,32 and 33, and in Rock Canon in secs.30 and

Subdivisions of T.38 S., R.16 W.-Continued.

31, the geological features are indicative of the presence of copper and silver ores. There are also light traces of copper or copper stains in secs. 13, 14, 23 and 24; and I hereby return as mineral lands the following subdivisions, viz:

The S.I/2 of sec.13; S.I/2 of sec.14; N.I/2 of sec.23; N.I/2 of sec.24; V.I/2 of S.W.I/4 of sec.24; S.W. I/4 of sec.28; ... lot No.4 of sec.30; all of sec.31; all of sec.32; and N.W.I/4 of sec.33.

September 16,1899.

Mayhew H. Dalley
U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by	
United States Deputy Surveyor, to assist in running	
arking the lines and corners described in the foregoing field notes of the survey of	
howing the respective capacities in which they acted: July FINAL OATH OF ASSISTANTS.	*
	, Chainman.
	Chainman.
f _{st} X	
1 Jev	Moundman
and of	1
o offi	, Axman.
· H. limet V	, Axman.
FINAL OATH OF ASSISTANTS.	, Flagman.
l	
We hereby certify that we assisted	
United States Deputy Surveyo	
nose parts or portions of the	
·	************
·	
of	the
of, whi	ch are represented
the foregoing field notes as having been surveyed by him and under his direction; an	
as been in all respects, to the best of our knowledge and belief, well and faithfully mer monuments established, according to the instructions furnished by the United	
oneral for	or services of the copy of
80 31 81	<i>(1) i</i> · · · · · · · · · · · · · · · · · · ·
m	, Chainman.
	, Chainman.
	, Moundman.
	, Moundman.
- interpretation	, Axman.
······································	, Axman.
	, Flagman.

abscribed and sworn to before me this	•
day of, 189	
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6-151	

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Marshew J. Dalley United States Deputy Surve
solemnly swear that, in pursuance of a contract received from
United States Surveyor General for
day of, 1897, I have well, faithfully, and truly, in n
proper person, and in strict conformity with the instructions furnished by the United States St
Consultor I Class the Manual of Surveying Instructions, and the laws
United States, surveyed all those parts or portions of The Subdivious of Lecons
38 Soulf House 16 Hest
and doll do
Base and meridian, in the State of Gelat, which are represented
Mase " meridian, in the Male of Celal , which are represented
foregoing field notes as having been surveyed by me, and under my direction; and I do further se
swear that all the corners of said survey have been established and perpetuated in strict accordan
the Manual of Surveying Instructions, and the special written instructions of the United States S
General forand in the specific manner described in the field notes, a
the foregoing are the original field notes of such survey; and should any fraud be detected, I wi
the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.
- ^>
Mayhew 26 Dalley
United States Deputy St
Subscribed by said Harfley And Sworn to before me)
$\star 1/l (h_2 \cdot l)$
this May of May 1961, 189
Savard Huder Soc
000000 (7) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
SSENIO H. S Guercega General for Letate
APPROVAL.
OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Mar Oak Patalina
Salh Och bely Selet, Cynel 1919
The foregoing field notes of the survey of the Sechelesiacine formula
The foregoing field notes of the survey of the Sechelekinions formula is
180 with Mange Me War of the Oalh Wate Was and
Mudicine Allady
17. P SA 67 00
executed by Allegherer (1 to allegherer)
under his contract No. 224, dated Jacobsen 1897, hav
critically examined, and the necessary corrections and explanations made, the said field notes,
surveys they describe, are hereby approved.
Edward Hudleson
United States Surveyor
I certify that the foregoing transcript of the field notes of the above-described surveys in
, has been correctly copied from the original notes on file in this

United States Surveyor Ge

B00K A-282 FIELD NOTES OF THE SURVEY OF THE East Boundary Achacoment of the South Boundary Township to South Towngo 17 West of the Salh Sake Basse recel Meridian, Mite of Rotaly AS SURVEYED BY Marfired N. Colley, United States Deputy Surveyor, Inder his Contract No. Deff, dated January 3, 1899 survey commenced Hillers Love , 1899 urvey completed 112/212 Cal 9 , 1899 Francis & Roy land 4 28.857 (3) Clasing 2. 5-3. 50
Clasing .25,22
Reterior S'Balylen 605,59

6--151

NAMES AND DUTIES OF ASSISTANTS.

May Wordling	 Chainman
Edward & Higher	<u>fhainnau</u>
Orber Palley	Maindinan.
David Dex	Minnolman
Oeler Valley	Amas
Parid Dix	ayonan
Hilliam Marfarlane	Gagman
In presiminary affician	tue lasti G. F. OSS Plan

B00K A-282

INDEX DIAGRAM.

Town	nship	••••••	., Range		
6	5	4	3	2	1
7	8	Đ	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
80	20	28	27	26	25
81	82	83	34	85	80

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We,	and
chain over even and uneven ground, and plumb we will report the true distances to all notable measuring, to the best of our skill and ability, an	ally execute the duties of chainmen; that we will leve the tally pins, either by sticking or dropping the same objects, and the true lengths of all lines that we as ad in accordance with instructions given us, in the sur
	, Chain
	, Chair
Subscribed and sworn to before me this)
day of, 189	}
FEAL (
WE,	and
do solemnly swear that we will well and trul of corners, according to the instructions given	y perform the duties of moundmen in the establishus, to the best of our skill and ability, in the pure
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	, Mound
Subscribed and sworn to before me this	······)
day of, 189	}
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do solemnly swear that we will well and truly p	erform the duties of axmen in the establishment of our us, to the best of our skill and ability, in the sur
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Subscribed and sworn to before me this	{
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SEAL (II)	

Resurvey of the E.bdy.of T.36 S., R.17.W.

Chains.

Resurvey commenced November 6,1899, and executed with a W.and L.E.Gurley Light Mountain Solar Transit, for description of which see Notes of the Survey of S.bdy.of T.42 S., R.14 W., Book A

I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m.hours, with a true meridian determined by observation on Polaris, I proceed as follows:

November 6,1899:At the cor.of Tps.36 and 37 S., Rs.16 and 17 W., which is a sandstone 20x20x6 ins.., above ground, marked and witnessed as described by the Surveyor General, latitude 37°37' N.; longitude 113°38' W., I set off 37°37' N.on the lat.arc; 16°6' 30' S.on the decl.arc; and, at 3h47m p.m., l.m.t., determine with the solar a true meridian and mark a point thereof, on a stone firmly set in the ground, 5.00 chs.N.of of the cor.

November 6,1899.

November 7,1899:At 4h 8m a.m., l.m.t., I observe Polaris at Western Elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a block of wood firmly set in the ground, 5.00 chs. N. of my station.

At 7^h30^m a.m.,l.m.t.,I lay off the Azimuth of Polaris I^o33' to the East, and mark the True Meridian thus determined by cutting a cross(X) in the stone set November 6, on which the True Meridian falls 0.2 ins.East of the mark determined by the Solar.

November 7,1899:At 7h 44m a.m.,l.m.t.,I set off 37°37' N.on the lat.arc;I6°I8' S.on the decl.,arc; and mark a point in the true meridian determined with the solar, by a small groove on the stone alroady set 5.00 chs.N.of the cor.;this mark falls 0.3 ins.East of the True Meridian established by the

Chains. Polaris observation. The solar apparatus, by p.m. and a.m. observations defines positions for True Meridians, respective ly about 0'10" West and 0'16" East of the Meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory. The Magnetic bearing of the True Meridian, at 8h a.m., is N.16027 W.; the angle thus determined reduced by the table, page 100, gives the Mean. Mag. Decl. 16024' E. Preliminary to commencing the subdivisions of the township, I run N. on a blank line, on the E. bdy. of sec.36; at 40.00 chs. I find the old I/4 sec.cor., E.40 lks.dist.; and at 80.00 chs., the cor.of secs.25, 30,31 and 36, bears S.530 E.59 lks.dist; therefore, I continue my line N., find no part of the E.bdy.in alinement, and that many of the old corners are nearly

obliterated.At 562.35 chs., intersect the 7th.Standard Parallel S., at 25.22 chs.W.of the standard cor. of Tp.35 S., Rs. I6 and I7 W.I find no trace of the old closing cor. of TP.36 S., Rs. I6 and I7 W.

November 7th, 1899.

As Townships 36 S.,Rs.I6 and I7 W.,have not been subdivided, I return to the cor.of Tps.36 and 37 S., Rs.I6 and I7 W.,heretofore described, and resurvey the range line bet.these Tps.as follows:N.,on resurvey line,bet.secs.31 and 36.
Over nearly level ground; through dense sage undergrowth.
Trail bears S.50° W.and N.50° E.

21.75 Trail bears S.35° E.and N.35° W.

30.80 Trail bears S.80° W.and N.80° E.

40.00 Set a granite stone I3xI0x6 ins.,9 ins.in the ground for I/4 sec.cor.,marked:I/4 on W.face;dug pits I8xI8x

I2 ins.,N.and S.of stone,3 ft.dist.;and raised a

6.IO

Chains. mound of earth, 3 I/2 ft.base, I I/2 ft.high, W.of.cor. The old I/4 sec.cor.,a trachyte stone 9x6x5 ins., without witness points, bears E.40 lks.dist.I destroy all traces of this ald I/4 sec.cor. 57.75 Trail bears N.250 W. and S.250 E. 72.60 Trail.bears E.and N.800 W. 77.00 Leave dense sage undergrowth, and enter scattering sage bears N.IOO E.and S.IOO W. 80.00 Set a trachyte stone I5x8x5 ins., IO ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked with 1 notch on S.and 5 notches on N.edges; dug pits I8x I8xI2 ins.in each sec.,5 I/2 ft.dist.; and raised a mound of earth, 4 ft.base, 2 ft.high, W.of cor. Lahd nearly level, gently sloping N. Soil, rich clay and sandy loams; Ist. rate. No timber. Ground covered with sage undergrowth, shrubbery and grasses, which make fair grazing. Dense sage undergrowth on 77.00 chs. The old cor.of secs.25,30,31 and 36,a trachyte I3x 5x3 ins., without witness points, bears S.530 E.59 lks. dist. I destroy all traces of this old sec.cor.

N.on resurvely line bet.secs.25 and 30.

Over nearly level land; through medium dense sage undergrowth.

I4.90 Trail bears S.E. and N.W.; enter dense sage and rabbit brush undergrowth, bears E. and W.; leave medium dense sage.

Trail bears E. and W.

35.50

40.00 Set a trachyte stone I8xI0x4 ins., I2 ins.in the ground, for I/4 sec.cor., marked I/4 on W.face; dug pits I8xI8xI2 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 I/2 ft. base, I I/2 ft. high, W. of cor.

From this point the old I/4 sec.cor., a trachyte 9x 6x4 ins., without witness points, bears $N.71^{\circ}$ E.IIO lks.dist. I destroy all traces of this old I/4 sec. cor.

1-

Chains. 43.75 Trail bears N.W. and S.E. 44.50 Road from St. George to Modena, bears S.E. and N.W. 54.50 Enter sand drifts bears E.and W. 60.50 Leave sand drifts bears S.E.and N.50 W. Set a trachyte stone. I5xI2x5 ins., I0 ins.in the 80.00 ground, for cor. of secs.19,24,25 and 30, marked with 2 notches on S.and 4 notches on N.edges; dug pits I8 xI8xI2 ins., in each sec., 5 I/2 ft.dist.; and raised. a mound of earth, 4 ft.base, 2 ft.high, W.of cor. Find no trace of the old cor.of secs.19,24,25 and 30, after diligent search. Land mostly level, gently sloping N., with sand drifts crossing N.I/2 of sec. Soil, rich clay and sandy loams; Ist; rate. No timber. Dense sage or rabbit brush undergrowth on N.65.TO chs. N., on resurbey line bet.secs. I9 and 24. Over nearly level land; through dense sage and rabbit brush undergrowth. Trail bears E.and W. 4.50 Wash I.00 ch.wide and 8 ft.deep, drains N.700.W. 19.40 Shoal Creek wash 50 lks.wide and IO ft.deep, drains N. 27.00 500 E. Set a trachyte stone I5xI0x8 ins., I0 ins.in the 40.00 ground, for I/4 sec.cor., marked I/4 on W.face; dug pits I8xI8xI2 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, W.of cor. The old I/4 sec.cor., a trachyte llx6x3 ins., without witness points, bears N.380 IO' E., I.45 chs.dist. I destroy all traces of this old I/4 sec.cord. Trail bears N.350 W., and S.350 E. 51.70 79.22 Trail bears 5.60° E.and N.60° W.

Set a trachyte stone 20xI0x5 ins., I5 ins.in the

ground, for cor. of secs. 13, 18, 19 and 24, marked with

80.00

- Trive of Conditing

Chains. 3 notches on S.and N.edges; dug pits I8xI8xI2 ins.in each sec., 5 I/2 ft.dist.; and raised a mound of earth, 4 ft.base, 2 ft.high, W.of cor.

The old cor.of secs.13,18,19 and 24, which is a trachyte trachyte stone IOx5x4 ins., without witness points, bears N.39045' E.,2.03 chs.dist. I destroy all traces of this old sec.cor.

Land nearly level on S.31.00 chs.; slightly rolling land on N. 49.00 chs.

Soil, sandy and clay loams in S.I/2 of sec., and clay gravelly soil on N.I/2 of sec.; 2nd. and 3rd. rate.

No timber.
Undergrowth, shrubbery and grasses afford fair grazing.

Dense sage or rabbit brush undergrowth on 80.00 chs.

November 8,1899:At this sec.cor., I set off 16040'

S.on the decl.arc; and at 11h44m a.m., 1.m.t., observe the the sun on the meridian; the resulting lat.is 37040'

"N.

N., on resurvey line bet. secs. 13 and 18.

Over slightly rolling land; through dense sage undergrowth.

4.10 Trail bears E.and W. 20.65 Trail bears N.W.and S.E.

40.00

64.58

32.60 Trail bears N.50° W.and S.50° E.

Set a trachyte stone I2xI2x6 ins.,8 ins.in the ground, for I/4 sec.cor., marked I/4 on W.face; dug pits I8xI8xI2 ins., N. and S. of stone, 3 ft.dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, W.of cor.

The old I/4 sec.cor., which is a trachyte stone 7 x5x4 ins., without witness points, bears N.37°45' E. 2.25 chs.dist. I destroy all traces of this old I/4 sec.cor.

42.15 Trail bears N.W. and S.E.

54.60 Trail bears N.400 W.and S.400 E.

Trail bears N.300 W.and S.300 E.

Chains. Trail bears N.W. and S.E. 79.45 Set a trachyte stone I8xI2x6 ins., I2 ins.in the 80.00 ground, for cor. of secs. 7, 12, 13 and 18, marked with 4 notches on S. and 2 notches on N. edges; dug pits 18x 18x12 ins., in each sec., 5 I/2 ft.dist.; and raised a mound of earth, 4 ft.base, 2 ft.high, W of cor. From this cor. the old cor. of secs. 7,1213 and 18, which is a trachyte stone .7x7x4 ins., with pits and mound obliterated, bears N.45040' E., 2.27 chs.dist., I destroy all traces of this old sec.cor. Land slightly rolling with course of general slope to N. Soil, clay slightly intermixed with gravel; 2nd. and 3rd.rate. No timber. Undergrowth, shrubbery and grasses afford fair grazing. Dense sage undergrowth on 80.00 chs. N., on resurvey line bet.secs.7 and 12. Over nearly level land; through dense sage undergrowth Trail bears N.W. and S.E. 8.10 Trail bears . N. W. and S.E. 20.50 Trail bears N.500 W.and S.300 E.. 34.I2 Set a trachyte stone 15x12x6 ins., IO ins.in the 40.00 ground, for I/4.sec.cor., marked I/4 on W.face; dug pits I8xI8xI2 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, W.of cor. The only trace I find of the old I/4 sec.cor.is a marked pine stake loose on the ground, which bears N. 530 E.2.44 chs.dist.from the new cor. I destroy this old stake. Leave dense sage undergrowth bears E.and W.; enter 46.75 scattering sage. Trail bears N.75° W. and .5.75° E. 48.10 Trail bears N.40° W.and S.40° E. 62.60

Trail bears N.W. and S.E. S. Banks

76.50

Chains.

80.00

Set a trachyte stone I8xI4x8 ins., I2 ins.in the ground, for cor. of secs.1,6,7 and 12, marked with 5 notches on S. and 1 notch on N edges; dug pits 18x18x 12 ins.in each sec.5 I/2 ft.dist.; and raised a mound of earth, 4 ft.base, 2 ft.high, W. of cor.

4.75

From this cor.the old cor.-a trachyte stone Iox7. x4 ins., with no traces of pits and mound-bears N.65° 40' E.,2.14 chs.dist. I destroy all traces of this old cor.

Lime Canfield's cabins bears N.160 W., about 70.00 chs.dist.from the new cor.

Land nearly level, gently sloping to N.

Soil, clay slightly intermixed with gravel; 2nd. and 3rd.rate.

No timber.

Thence I run

Undergrowth, shrubbery and grasses afford fair grazing.

Dense sage undergrowth on 46.75 chs.

November 8,1899:I set off 37°41' N.on the lat. arc;I6°42' S.on the decl.arc;and,at 2h44m p.m.,l.m. t.,determine a true meridian with the solar,at the cor.of secs.1,6,7 and 12,already described.

N., on resurvey line bet. secs.l and 6; slightly descending over nearly level ground.

- 2.53 Trail bears N.80° W.and S.80° E.
- 6.60 Road from St.George to Modena, bears S.250 E. and N. 250 W.
- 40.00 Set a trachyte stone IOxIOx6 ins.,7 ins.in the ground, for I/4 sec.cor., marked I/4 on W.face; dug pits I8xI8xI2 ins., N. and S.of stone, 3 ft.dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, W.of cor.

From this cor.thc old I/4 sec.cor., a trachyte stone with pits and mound obliterated, bears N.68015' E. 2.53 chs.dist. I destroy all traces of the old cor.

Chains. Lime Canfield's cabin, with stable N.of cabin bears

N.29010 W., about 30.00 chs.dist.

Trail bears N.250 W. and S.250 E. 48.IO

76.IO

Trail bears N.500 W. and S.500 E.

90.63

Trail bears N.W. and S.E. 120.19

Intersect the 7th. Standars Parallel South 25.22 chs.

162.35

W.of the Standard cor.of Tp. 35 S., R. 16 and 17 W.,

which is a granite stone 12x8x6 ins.above ground,

marked and witnessed as described by the Surveyor

Set a trachyte stone 15x9x5 ins., IO ins.in the

ground, for closing cor. of Tp. 36 S., Rs. 16 and 17 W.; marked C.C.36 S., on S., I6 W. on E., and I7 W. on W.

faces, with 6 grooves on S., E. and W. faces; dug pits

30x24x12 ins.crosswise on each line E.and W., 4 ft.,

and S.of stone, 8 ft.dist.; and raised a mound of

earth,5 ft.base,2 I/2 ft.high,S.of cor. Find no trace of the old closing Tp.cor., after dili-

gent search. Land nearly level, gently sloping N. Soil, rich sand and clay loams slightly intermixed

with gravel; Ist. and 2nd. rate: No timber.

Undergrowth, shrubbery and grasses in sufficient quantity to make fair grazing.

November 8,1899.

GENERAL DESCRIPTION: For General Description see Notes of subdivision

of this Township. November 8th, 1899.

Retracement of S.bdy.of T.36 S., R.17 W.

Chains.

Retracement commenced November 9,1899, and executed with a W.and L.E.Gurley Light Mountain Solar. Transit, for description of which see Notes of the Survey of S.bdy.of T.42 S., R.I4 W., Book A

For complete test of solar apparatus see Notes of Resurvey of the E.bdy.of this Tp.

Having heretofore retraced the E.bdy.of the Tp. and found the same irregular in bearing and defective in measurements, I deem it advisable to test the courses and lengths of lineson the S.bdy. thereof before commencing the survey of the subdivisions: therefore I proceed as follows:-

November 9,1899:I set off 37037' N. on the lat.arc; I6053' S.on the decl.arc; and, at 7h44' a.m., l.m.t., determine a true meridian with the solar, at the cor.of Tps.36 and 37 S., Rs. I6 and I7 W., heretofore described in Notes of Resurvey of the E.bdy.of this Tp.

Thence I run

W., on the S.bdy.of the Tp., retracing the line bet. secs. I and 36.

Over nearly level ground; through dense sage undergrowth.

- 12.70 Trail bears W.E. and S.W.
- 23.95 Shoal Creek wash 100 lks.wide and 6 ft.decp,drains W.25° W.;begin ascent of low foot hills;leave level ground.
- 31.50 Leave dense sage undergrowth bears M.and S.; enter medium dense sage.
- 36.60 Trail bears W. and S.
- 40.41 Cedar post about 4 ft.above ground, 6 ins.diam., bears N.20 lks.dist.-post marked IRON CO., on N. and W.CO., on S.
- 40.45 Fall 20 lks.S.of the old I/4 sec.cor., which is a trachyte stone I5x8x5 ins.above ground, marked and
- witnessed as described by the Surveyor General.
 Course of line, therefore, is N.890 43 W.

 49.64 Road from Enterprise to Modena, bears S.50 W. and N.

 50 E.

Chains.

Retracement of S.bdy.of T.36 S., R.17 W.-Continued.

Trail bears N.and S. 50.93 Wash I6 lks.wide and 4 ft.deep drains S.300 E. 65.55 Trail bears N.700 W.and S.100 E. 68,56 road Wood, running from Enterprise to the cedars bears 69.68 S.200 E.and N.200 W. Leave foot hills and begin ascent of ridges on W. 71.00 side of valley, about 100 ft. above the Tp.cor., bears S.150 E.and N.150 W. Fall 56 lks.N.of the old cor.of secs.I,2,35 and 36, 8I.I3 which is a trachyte stone IOx6x5 ins.above ground, marked and witnessed as described by the Surveyor General.On N.E.slope about 50 ft.above foot of ridges The course of this line is therefore, S. 89036' W., bet.the Tp.and sec.cor.; and the course on last 1/2mile is S.88055' W.; and distance 40.69 chs. Land partly level; and partly foot hills and moun-Soil in the valley rich loam; Ist.rate.On the ridges and foot hills the soil is gravelly; 3rd.rate. No timber, except very few cedars on the ridges. Mountainous land or land covered with dense undergrowth on 41.58 chs. From the cor.of secs. I, 2, 35 and 36, above describ: I run W., retracing line bet.secs.2 and 35. Ascend over N.E. slope of ridges. Top of ridge about IOO ft.above the sec.cor., bears 20.50 N.E.and S.W.; descend over N.W.slope. Hollow at N.W.foot of ridges about 50 ft.below top, 28.23 drains N.; ascend. Top of ridge 75 ft.high bears N.and S. ;descend over 33.43 N.W.slope of ridge. Foot of descent about 75 ft.below top of ridge,falls 35.73 to N.E., and rises S.W.; ascend over E. and N.E. slope Fall 22 lks. S.of the old I/4 sec.cor., which is a 40.82

granite stone I6xI6x5 ins.above ground, marked and

Retracement of S.bdy.of T.36 S., R.17 W.-Continued.

witnessed as described by the Surveyor General. Course of this line is, therefore, N. 89041' W V Top of ridge about IOO ft.high, bears N.E. and S.W.; Chains. 43.50 descend over N.W.slope 58.00 Hollow at foot of descent about 100 ft. below the top, drains N.E.; ascend over N.E. slope of ridge. .80.52 Fall 56 lks. S.of the old cor.of secs.2,3,34 and 35, which is a trachyte stone IOx6x6 ins.above ground, marked and witnessed as described by the Surveyor General. The course of this line is therefore, N. 890 36' W. bet. the sec. corners; and the course on last I/2 mile is N.89031' W.; and distance 39.70 chs. Land mountainous and broken ridges Soil, gravelly and stony; 3rd, and 4th.rate. No timber, except very few codars. Medium dense sage and service berry undergrowth, with shrubbery and grasses afford good grazing. Mountainous land on 80.52 chs. From the cor.of secs.2,3,34 and 35,above described I run W., retracing line bet.secs.3 and 34. Ascend over N.E. and E. slopes of ridges. 25.80 Top of ridge about I50 ft.above the sec.cor., bears. N.and S.; descend over N.W. slope of ridges. 39.70 Fall 32 lks.N.of the old I/4 sec.cor., which is a granite stone I0x6x5 ins.above ground, marked and witnessed as described by the Surveyor General. Course of line is therefore, 5.89032 / W. Foot of descent about IOO ft.below top of last ridge, 50.80 slopes S.W.; ascend on S.E.slope of ridges. Trail bears Top of ascent on ridge about 150 ft.high, bears N. 72.80 10° E.and S.10°W.; descend over N.W. slope of ridges. Fall 31 lks.N.of the old cor.of secs.3,4,33 and 34, 80.52 which is a granite stone I2x8x6 ins.above ground, marked and witnessed as described by the Surveyor

The course of this line is therefore, S.89047' W.,

bet. the sec. corners.; and N.89059! W.on last 1/2 mile

General.

Retracement of S.bdy.of T.36 S., R.17 W .- Continued. Land mountainous and broken ridges. Chains. Soil, gravelly and stony; 3rd and 4th .rate. Timber, scattering cedar and nut pine. Medium dense sage and service berry undergrowth with and abundance of grasses and shrubbery afford good grazing. Mountainous land on 80.52 chs. November 9,1899:At this cor.of secs.3,4,33 and 34, I set off 16057'30" S.on the decl.arc; and, at 11h44m a.m., l.m.t., observe the sun on the meridian; the resulting lat is 37037' N. From the old cor. of secs. 3, 4, 33 and 34, above described I run 🦠 W., retracing line bet.secs.4 and 33.

Descend over N.W.and W.slopes of ridges: Ravihe at W.foot of ridges, about 125 ft.below the

sec.cor.,about 20 lks.wide and IO ft.deep,drains, S.W.; ascend over S.E. slope of ridges. Top of ascent on S.W.slope of ridge, about 50 ft. above

I5, I3

23.50

29.63

30.47

30.76

31.93

63.20

80.50

W.foot of ridges about 100 ft.below top of last ascent, bears N. 15° W. and S. 15° E. Trail bears N.200 W.and S.200 E.

Road from Enterprise to Modena and wood hills, bears S.100 E.and N.100 W.

Wash at foot of descent about 8 lks.wide and 4 ft. deep,drains S.I50 E.; ascend over E. and N.E. slope of high ridges.

the ravine, bears N.W. and S.E.; descend over S.W. slope.

Trail bears N.and S. 33.73 Fall 46 lks.S.of the old I/4 sec.cor., which is a gra. 40.20 ite stone I0xI0x6 ins.ahove ground, marked and wit-

nessed as described by the Surveyor General. The cou-of this line is, therefore, N. 89021 W. Top of ascent on M.E.slope of ridge about 100 ft. above the wash, bears N.E. and S.W.; thence along the N.slope of high ridge over broken spurs, with genercourse of drainage to N.and N.W.

Fall 57 lks.S.of the old cor.of secs.4,5,32 and 33,

Retracement of S.bdy.of T.36 S., R.17 W.-Continued.

Chains.

IO.75

40.82

68.4I

81.83

which is a granite stone, 8x8x5 ins. above ground, marked and witnessed as described by the Surveyor General.

The course of this line is, therefore, N.890 36' W. bet. the sec. corners; and N.89°51' W. on the last I/2 mile; and the distance 40.30 chs.

Land mountainous and broken.

Soil, gravelly and stony; 3rd and 4th rate.

Timber, scattering cedars and nut pine.

Sage and service berry undergrowth, shrubbery and grasses in sufficient quantity to make fair grazing. Mountainous land on 80.50 chs.

From the cor.of secs.4,5,32 and 33,already described, I run

W., retracing line bet.secs 5 and 32.

Over N.slope of high ridge over spurs and hollows which drain N.and N.W.

Marinania a i dia galambii awa w

Commence descent over N.W.slope of ridge, bears N.E. and S.W.

I6.73 Ravine about 50 lks.wide and IO ft.deep, drains N.450

Ravine about 75 lks.wide and 50 ft.deep, drains N.300

E.; ascend from ravine over E.slope of ridge.

Top of ascent about IOO ft.above the ravine, bears
N.and S.; thence descend gradually over N.slope of
high ridge.

Fall 23 lks.N.of the old I/4 sed.cor., which is a flint stone I2xI0x5 ins.above ground, marked and witnessed as described by the Surveyor General. The cours of this line is, therefore, \$3.89041/W.

nessed as described by the Surveyor General. The course of this line is, therefore, \$.89041, W. Trail bears N.500 W. and \$.500 E.

Fall 39 lks. S. of the old cor. of secs. 5, 6, 31 and 32, which is a flint stone I2x8x5 ins. above ground, marked and witnessed as described by the Surveyor General.

The course of this line is therefore, N.89043 W. bet.

the sec.corners; and course N.8908 W.on last I/2 mi. and the distance 41.01 chains.
Land mountainous and broken.

Soil, gravelly and stony; 3rd. and 4th.rate

Retracement of S.bdy.of T.36 S., R. I7 W.-Continued.

Chains. Timber, scattering cedars and nut pine.

Sage and service berry undergrowth and shrubbery and grasses in abundance, which afford good grazing.

Mountainous land on 81.83 chs.

desccribed, I run

25 ft.deep,drains N.

34.60

40.66

81.07

W., retracing line bet.secs.6 and 31.
Gradually ascend over N. and N.E. slopes of high ridge.
Hollow on N. slope of ridge about 50 lks. wide and

Fall I6 lks.S.of the old I/4 sec.cor., which is a

From the old cor.of secs.5,6,31 and 32,heretofore

granite stone I2x6x5 ins.above ground, marked and witnessed as described by the Surveyor General. The course of line is, therefore, N. 89° 46° /W. Top of mountain about 250 ft.high, bears S. 50° E. and N. 500 W.; descend over S.W. slope of mountain and ridges.

I2xI2x7 ins.above ground, marked and witnessed as described by the Surveyor General. The cor.is on S.W. slope of ridge about IOO ft.below top of the mountain.

The course of this line is, therefore, due West bet.

Intersect W.bdy.of the Tp., at the old cor.of Tps.

36 and 37 S., Rs. I7 and I8 W., which is a flint stone

The course of this line is, therefore, due west bet the sec.corners; and course, S.89046' W. on last I/2 mile, and the distance 40.41 chs.

Land mountainous and broken.

Soil, gravelly and stony; 3rd. and 4th.rate.

Timber, scattering cedars and nut pine.

Medium dense sage and serviceberry and oak undergrowth, with shrubberry and grasses afford fair graz-

Mountainous land on 81.07 chs.

ing.

November 9,1899.

	Retracemen	t of S.bdy.	of T.36	S.,R.I	7. WCo	ntinued	•	
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S.bdy.T.	 36 S.R.I7 W				[,		
S.bdy.se	7.36.	3.89°36'w.	.81.13.		. 5,6		81	13.
S.bdy.se	35.	11.89036'W	80.52.	.56.	1		. 80	52.
S.bdy.se	34.	S.89047'W	80.52	1	.31		80	.52.
S.bdy.se	 2.33.	N.89036'W.	80.50	.57	1		80	.5 0 .
S.bdy.se	32.	N.89043'W	81.83.	.39.	1		81	83.
S.bdy.se		West	81.07.		,		81	. 07.
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w.bdy.r.	36 S.,R.I7 \	North.	561.67	56I.67.	1			
N.bdy.T.	36 S.,R.I7	w.						
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E.bdv.T.	36 S.,R.I7	w.		İ			:	
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U.S.Deputy Surveyor.

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by	
marking the lines and corners described in the foregoing field process of the survey of	
To file	
V A	<i>Cl.</i>
	, Chainman.
D re.	, Chainman.
	, Moundman.
showing the respective capacities in which they actually the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the secti	, Moundman.
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Jr (, Flagman.
FINAL OATH OF ASSISTANTS.	
We hereby certify that we assisted	
, United States Deputy Surveyo	
those parts or portions of the	•
of	the
, wh	ich are represented
n the foregoing field notes as having been surveyed by him and under his direction; as	•
has been in all respects, to the best of our knowledge and belief, well and faithfully	
corner monuments established, according to the instructions furnished by the Unite	d States Surveyor
Teneral for	
136	, Chainman.
	, Chainman.
KIN!	, Moundman.
Var.	, Moundman.
J/v	
of Jan	,
· (o /)	,
	, Flagman.
Subscribed and kworn to before me this	~
day of, 189	***
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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR

	FINAL OATH OF UNITED STATES 221
_	United States Deputy Sur
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United States Surveyor

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FIELD NOTES

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NAMES AND DUTIES OF ASSISTANTS.

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INDEX DIAGRAM.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

their over even and uneven ground, and plumb	ully execute the duties of chainmen; that we will leve the tally pins, either by sticking or dropping the same
will report the true distances to all notable	objects, and the true lengths of all lines that we ass
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Subdivisions of T.36 S., R.I7 W.

S.bdy.of T.42 S., R. I4 W., Book A

Chains. Survey commenced November 10,1899, and executed with a W. and L.E. Gurley Light Mountain Solar Transit for description of which see Notes of the Survey of

For complete test of solar apparatus see Notes of Resurvey of the E.bdy.of this Tp., Book I.

Having previously retraced the S.bdy.of this

Tp., and finding the same irregular in bearing and
defective in measurements, I establish Sectional Correction Line as follows:

November 10,1899:I set off 37°38' N.on the lat.arc;I7°11' S.on the decl.arc;and, at 8h44' a. m.,l.m.t.,determine a true meridian with the solar, at the cor.of secs.25,30,31 and 36,on the E.bdy.of the Tp.,heretofore described in Notes of Resurvey thereof.

Thence I run

11.18

25.08

W.bet.secs.25 and 36, on Sectional Correction Line.... Over nearly level land; through scattering sage brush.

Trail bears N. and S.

11.28 Enter dense sage undergrowth bears N.200 E.and S.200

W.; leave scattering sage.

20.32 Shoal Creek wash I.50 ch.wide and 5 ft.deep, drains

л.15° Е.

Begin ascent over rolling bench E.of foot hills bears
N.and S.; leave level land.

39.41 Trail bears S.500 E.and N.500 W.

40.00 Set atrachyte stone I6xI0x5 ins.,ll ins.in the ground for I/4 sec.cor.,marked I/4 on N.face;dug pits I8xI8xI2 ins.,E.and W.of stone,3 ft.dist.;and raised a mound of earth,3 I/2 ft.base,I I/2 ft.high,

raised a mound of earth, 3 1/2 ft.base, 1 1/2 ft.high,

N.of cor.
Road from Enterprise to Modena bears S.and N.

54.50 Road from Enterprise to Modena bears S.and N. 61.50 Trail bears N.and S.

69.00 Begin ascent of foot hills and low ridges on W.side

of bench bears N. and S.

80.00 Set a trachyte stone I4x6x6 ins.,ll ins.in the ground,for cor.of secs.25,26,35 and 36,marked with

l notch on S.and E.edges; and raised a mound of stone Chains. 2 ft.base, 1 1/2 ft.high, W.of cor. Pits impracticable. Cor.is on E.slope of ridge about 50 ft.above bottom of foot hills. Land on E., nearly level; in the middle part rolling bench; and on the W.foot hills and ridges. Soil, sandy and clay loams, gravelly and stony; Ist. 2nd. and 4th.rate. No timber. Undergrowth, shrubbery and grasses afford fair grazing. Mountainous land or land covered with dense undergrowth on 80.00 chs. W., on sectional correction line bet.secs.26 and 35. Ascend gradually over E.and S.E.slope of ridges. Hollow about 50 lks.wide and 25 ft.deep, drains S.E. 7.00 Top of ridge about 75 ft.high, bears N.E. and S.W.; 24.50 descend over N.W. and W. slope of ridges. Hollow about 75 lks.wide and 40 ft.deep, drains N. 27.75 65° E.; ascend from hollow over S.E.slope of ridges. Top of spur on S.E. slope about 75 ft. high, bears S. 38.00 150 E.and N.150 W.; descend over S.W.slope. Set a trachyte stone I8xI0x6 ins., I2 ins.in the 40.00 ground, for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, N. Pits impracticable. of cor. Hollow at foot of descent about 75 ft.below top of. 57.00 last spur, about 50 lks.wide and 25 ft.deep, drains S.E.; ascend over S.E. slope of ridges. Set a trachyte stone I5xI2x4 ins., I0 ins.in the 80.00 ground, for cor.of secs. 26, 27, 34 and 35, marked with 1 notch on S. and 2 notches on E. edges; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W.of cor. Pits impracticable. Cor.is on S.E.slope of high ridge about 35 ft.above the last hollow.

Land mountainous and broken ridges.

Soil, gravelly and stony; 3rd. and 4th.rate. Chains. Timber, scattering cedar on last 45.00 chs.; scattering juniper trees on 2nd and 3rd . I/4 miles. Undergrowth, medium dense sage and scattering service berry brush, which with shrubbery and grasses in abundance afford fair grazing. Mountainous land on 80.00 chs. November IO, 1899: At this sec. cor., I set off 17014' 30" S.on the decl.arc; and, at llh44" a.m., l.m.t., observe the sun on the meridian; the resulting lat.is 37⁰ 38. W., bet.secs.27 and 34, on sectional correction line. Ascend over S.E.and E.slopes of high ridges. Top of ridge about I50 ft.high bears E.and W.; thence 35.70 gradually ascend over top of ridge. 38.20 Begin to descend over S.W.slope of ridge, bears S.I50 E.and N.150 W. 40.00 Set a volcanic stone I4xI0x6 ins., I0 ins.in the ground for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, N. Pits impracticable. of cor. 67.80 Ravine at foot of descent about IOO ft.below top of ridge, about 50 lks.wide and 25 ft.deep, drains 5.200 W.; ascend from ravine over S.E. slope of ridge. 69.80 Top of spur on S.E. slope about 75 ft. high, bears N.E. and S.W.; descend over S.and S.W.slopes of ridges and spur. 80.00 Set a trachyte stone 24x8x6 ins., I8 ins, in the ground, for cor.of secs.27,28,33 and 34, marked with 1 notch on S.and 3 notches on E.edges; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W.of cor.;

A cedar 8 ins.diam., bears S.84°15' W.,64 lks.dist., marked
T.36 S.,R.17 W.,S.33,B.T.

from which cor.,

A cedar IO ins.diam., bears S.55045 E., I60 lks.dist.

Chains. T.36 S., R.17. W., S.34, B.T. Land mountainous and broken ridges. Soil, gravelly and stony; 3rd and 4th .rate. Timber, scattering cedars Medium dense sage undergrowth, with grasses and shrubbery in sufficient quantity to make fair grazing. Mountainous land on 80.00 chs. W., bet.secs.28 and 33, on sectional correction line. Descend over W.and N.W.slopes of ridges. Ravine about 50 lks.wide and 25 ft.deep, drains N. 2.80 70° W.about 5.00 chs., thence 5.70° W. Same ravine about 50 lks.wide and 25 ft.deep,drains 27.32 5.40° W.; ascend from ravine. Trail bears N.20° W.and S.20° E. 30.65 Set a trachyte stone I6xI0x6 ins., ll ins.in the 40.00 ground for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, N. of cor. Pits impracticable. The cor.is on E.slope of ridge about 50 ft. above the ravine, and about IOO ft.below the sec.cor. Top of ridge about IOO ft.high, bears N. and S. 200 W.; 47.00 descend over W.and S.W.slopes of ridges. Hollow about 75 lks.wide and 40 ft.deep,drains S.IOO 60.50 Ε. Trail bears S.25° E.and N.25° W. 79.00

Road from Enterprise to Modena at foot of ridges, about 75 ft.below top of last ridge, bears S.25° E. and N.25° W.; ascend.
Set a trachyte stone I4x8x6 ins., IO ins. in the

ground, for cor.of secs.28,29,32 and 33, marked with 1 notch on S.and 4 notches on E.edges; and raised a mound of stone,2 ft.base, I I/2 ft.high, W.of cor. Pits impracticable.

Land mountainous and broken ridges.

Soil, gravelly and stony; 3rd. and 4th.rate. Timber, scattering cedars on E.52.00 chs.

79.20

80.00

Medium dense sage, scattering service berry and juni-

72.00

80.00

Chains. per with shrubbery and grasses afford fair grazing. Mountainous land on 80.00 chs.

November 10,1899.

November 11,1899:I set off 37038 N.on the lat. arc:17029' S.on the decl.arc; and at 10h 1.m.t., determine a true meridian with the solar, at the cor.of secs.28,29,32 and 33 already described; thence I run .

W., bet.secs.29 and 32, on sectional correction line.

Ascend over E.and N.E.slopessof ridges.

28.65 Hollow about 75 lks.wide and 30 ft.deep,drains N. 40° E.; ascend from hollow over N.E. slore of ridges.

Set a trachyte stone I6xI0x6 ins., ll ins.in the 40.00 ground, for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, N. of cor. Pits impracticable.

Top of spur about 100 ft.high, on N.E. slope of ridge 63.00 bears N.E. and S.W.; descend over N.W. slope of spur.

Bottom of hollow at N.W.foot of spur, about I.00 chwide

and 50 ft.deep, drains N.400 E.; ascend from hollow over E.slope of ridge.or spur.

Top of spur about 50 ft.high, on N.E. slope of ridge, 77.00 bears N.and S.; descend over N.W. slope of spur.

> Set a trachyte stone I6xI2x8 ins., ll ins.in the ground, for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on S. and 5 notches on E. edges; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W.of cor. Pits impracticable.

Cor. is on N.W. slope of spur which projects from N.E. slope of high ridge, about 50 ft. below top of spur. Land mountainous and broken ridges.

Soil, gravelly and stony; 3rd, and 4th, rate.

No timber, except very few cedars, and scattering juniper Undergrowth, medium dense sage, scattering service berry, and shrubbery and grasses, which combine to make good grazing.

Mountainous land on 80.00 chs.

Chains. W., on sectional correction line bet.secs.30 and 31. Descend over N.W.slope of spur which projects from N.E.slope of high ridge. N.W.foot of spur about 50 ft.below the sec.cor., 9.27 descends to N.E. and rises rapidly to S.W.; road from Hebron to Modena bears S.W. and N.E.; ascend over S.E. and S.slopes of ridges. Trail bears N.E.and S.W. 27.70 Set a lava stone I6xI0x6 ins., 11 ins.in the ground, 40.00 for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I 1/2 ft.high, N.of cor. Pits impracticable. The cor. is on S. slope of high ridge about IOO ft.above the road. Top of ridge about 250 ft.above the I/4 sec.cor., 6.6.00 bears N. and S. ; descend over W., S. and S.W. slopes of high ridge. Intersect the W.bdy.of the Tp., at the old cor.of 84.90 secs.25,30,31 and 36, which is a flat stationery bounder, IOx3x I/2 ft., above ground, marked and witnessed as described by the Surveyor general. The cor.is on S.W.slope of ridge about I50 ft.below top of last ridge. Land mountainous and broken. .. Soil, gravelly and stony; 3rd and 4th rate. Timber, scattering cedars and nut pine on W. 66.00 chs Medium dense sage and service berry undergrowth, with shrubbery and grasses in abundance, which afford fair grazing. Mountainous land on 84.90 chs. November 11,1899; At this cor. of secs. 25,30,31 and 36,I set off I7031' S.on the decl.arc; and, at 11h44m a.m., l.m.t., observe the sun on the meridian; the resulting lat.is 37039 N. November 11,1899.

Chains. November 13,1899:I set off 37038 . N.on the lat.anc; 180 1' S.on the decl.arc; and, at 8h44m a.m., with the solar l.m.t., determine a true meridian, at the cor. of secs. 25,26,35 and 36, heretofore described. Thence I run . . . S.,00 l' E.on a true line bet.secs.35 and 36,knowing from previous retracement of the S.bdy.of the Tp. that a closing cor.will be necessary. Descend over S.slope of ridge. . 3.30 Hollow at S.foot of ridge about 25 ft.below top, about 50 lks.wide and IO ft.deep,drains E.; ascend from hollow over N.E. slope of ridge. IO.54 Top of ascent on N.E. slope of ridge, about 75 ft. above the hollow, bears . N. E. and . S. W.; descend along E. slope of ridge. 33.79 Foot of ridges about 75 ft.belowetop of.ascent, bears N.70° W.and S.70° E.; thence over broken foot hills. Trail bears E. and W... 34.70 Begin ascent over N.E. slope of ridge, bears N.70° W. 37.50 and S.700 E.: Set a trachyte stone I2xI2x5 ins.,8 ins.in the 40.00 ground, for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W. Pits impracticable. of cor. Top of ridge on N.E.slope of high mountain, about 55.50 75 ft.high, bears S.E.and N.W.; descend over S.E.slope of ridges. Foot of ridges about 75 ft.below the top, bears N.750 69.75 W.and S.75° E.; ascend. Trail bears S.700 E.and N.700 W. 70.60 Wash I5 lks.wide and 4 ft.deep, drains 5.750 E. 71.85 Road from Enterprise to the wood hills bears S.850E. 72.40 and N.700 W. Intersect the S.bdy.of the Tp. 104 lks., N, 88056 E., 80.54 from the old cor.of secs. I, 2, 35 and 36, heretofore described in Notes of Retracement of this bdy. Set a trachyte stone I6xI0x6 ins.,11 ins.in the

ground, for closing cor.of secs.35 and 36, marked C.C. on N., with I groove on E.and 5 grooves on W.faces; and raised a mound of stone, 2 ft.base, I I/2 ft.high, N.

Pits impracticable. Chains, of cor. I destroy the marks on the old cor.of secs.1,2,35... and 36, that pertain to secs. 35 and 36, and remark the

same for corner of secs.I and 2,T.37 S.,R.I7 W.only. Land mountainous and broken ridges.

Soil, gravelly and stony; 3rd. and 4th. rate.

No timber. Medium dense sage undergrowth with shrubbery and

grasses, afford fair grazing.

Mountainous land on 80.54 chs.

From the cor.of secs.25,26,35 and 36,heretofore

0001'W. N., bet.secs.25 and 26. Ascend over S.slope of spur.

described, I run

of desert.

W.of cor.

40.00

Top of spur, on E. slope of high ridge, bears S.800 E. 5.I5 and N.800 W.descend over N.E.slope.

Trail bears N.300 W.and S.E.; foot of spur bears N.W. 16.56 and S.F.; thence over nearly level ground, on W.edge

> Set a trachyte stone I8xI2x8 ins., I2 ins.in the ground, for I/4 sec.cor., marked I/4 on W.face; dug pits I8xI8xI2 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of.earth,3 I/2 ft.base, I I/2 ft.high,

Trail bears S.E. and N.W. 48.40

Wash I5 lks.wide and 3 ft.deep, drains S.800 E.; ascend 49.40 from wash over S.E. slope of spur. Top of spur on M.E. slope of high ridge, about 75 ft. £7.20 shigh, bears S.E. and M.W.; descend over M.E. slope of

spur. N.E.foot of spur, bears S.E. and N.W.; thence descend 73.20

along E.slope of foot hills. . Set a trachyte stone I5x12x6 ins., 10 ins.in the 60.00 ground, for cor.of sccs.23,24,25 and 26, marked with

2 notches on S.and 1 notch on E.edges; and raised a mound of stone, 2 ft.base, I 1/2 ft.high, W. of cor. Pits impracticable. Cor.is on E.slope of ridge about

Chains. 50 ft.below foot of last spur.

Land partly nearly level, slightly rolling, and partly mountainous and broken ridges.

Soil on the ridges, gravelly and stony; 3rd.rate; and in the valley the soil is clay with some gravel; 2nd. rate.

No timber.

Medium dense sage undergrowth, with sufficient shrubbery to make fair grazing; also sprinkling of native grasses.

Mountainous land on 47.16 chs.

F., on a random line bet.secs.24 and .25.

40.00 Set temp. I/4 sec.cor.

79.98 Intersect E.bdy.of the Tp.,6 lks.N.of the cor.of secs.19,24,25 and 30, heretofore described in resurvey of this bdy.

Thence I run

12.18

39.99

N.89057' W.on a true line bet.secs.24 and 25.

Over nearly level land; through dense sage and rabbit

brush undergrowth.

Shoal Creek wash I.00 ch.wide and 2 ft.deep,drains N.E.; ascend from wash over rolling E.slope of bench on .W.edge of desert.

20.30 Trail bears N. and S.

30.48 Trail bears S.200 E.and N.200 W.

Set a trachyte stone I6xI2x5 ins., ll ins.in the ground, for I/4 sec.cor., marked I/4 on N.face; and dug pits I8xI8xI2 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 I/2 ft. base, I I/2 ft.

and raised a mound of earth, 3 I/2 ft.base, I I/2 ft high, N. of cor.

45.65 Road from St.George to Modena bears S.E. and N.W. 50.78 Trail bears S.E. and N.W.

Leave dense undergrowth bears N.am S.; enter medium dense and scattering sage.

53.25 Road from Enterprise to Modena, bears S. and N.

6I.68 Begin ascent of foot hills on W.edge of bench bears N.W. and S.E.

Chains. 79.95 The cor.of secs.23,24,25 and 26. Land nearly level on E., rolling bench in central part, and broken ridges on W. Soil, in the valley, rich sandy loam; Ist. rate; on the bench, clay and gravelly; 2nd. nate; and on the ridges, gravelly and stony; 3rd. and 4th. rate. Undergrowth of sage and rabbit brush, with shrubbery and grasses afford fair grazing. No timber. Mountainous land or land covered with dense undergrowth on 70.00 chs. November 13,1899: At this cor.of secs.23,24,25 and 26, I set off 180 3' S. on the decl. arc; and, at 11h44m d.m., l.m.t., observe the sun on the meridian; the resulting lat.is 37039' N.

over E.and W.E.slopes of ridges.

Foot of mountain about 50 ft.below the sec.cor.,
bears W.W.and S.E.; thence over rolling foot hills,
still descending.

Old road from St.George to Modena, bears S.E.and N.W.

N.,001' W., bet.secs.23 and 24; gradually descending

27.65 New road from St.George to Modena bears S.E. and N.W.
36.74 Trail bears S.E. and N.W.
40.00 Set a trachyte stone I2x8x6 ins.,8 ins.in the ground,

IEXI2 ins., N. and S. of stone, 3 ft.dist.; and raised a mound of earth, 3 I/2 ft.base, I. I/2 ft.high, W. of cor. This cor. is at foot of foot hills which bears S.E. and N.W., about 100 ft.below the sec. cor.

for I/4 sec.cor., marked I/4 on W.face; dug pits I8x.

N.W., about 100 ft. below the sec.cor.

Thence over nearly level land on bench which slopes.

E.on W.edge of desert.

40.84 Trail bears S.350 E.and N.350 W. 57.30 Trail bears S.300 E.and N.300 W.

80.00 Set a trachyte stone I2xI0x8 ins.,8 ins.in the ground

for cor.of secs.13,14,23 and 24,marked with 3 notches on S.and I notch on E.edges; dug pits 18x18x12 ins.,

Chains. in each sec., 5 I/2 ft.dist.; and raised a mound of earth, 4 ft.base, 2 ft.high, W.of.cor. Land partly mountainous and broken ridges, and partly nearly level and rolling bench. . Soil on the ridges, gravelly and stony; 3rd.rate; on . the bench, clay with slight intermixture of gravel; 2nd rate. Medium dense sage undergrowth and shrubbery and grasses, which afford fair grazing. . . No timber. Mountainous land on 40.00 chs. S.,89057' E.on a random line bet.secs.13 and 24. 40.00 Set temp. I/4 sec.cor. 80.02 Intersect E.bdy.of Tp., 4 lks.S.of the cor.of secs. 13,18,19 and 24, heretofore described in Notes of Resurvey of this bdy. Thence I min N..89059' W.on a true line bet.secs.13 and 24. Asend over E.slope of rolling bench on W.edge of desert; through dense sage undergrowth. Set a trachyte stone 12x8x6 ins., 8 ins.in the ground, 40.01 for I/4 sec.cor., marked I/4 on W.face; dug pits I8x 18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft.base, 1.1/2 ft.high, N.of cor. 77.70 Old road bears W. and S. 80.02 The cor.of secs.13,14,23 and 24. Land rolling bench sloping E.and N.E. Soil, rich clay intermixed with gravel; 2nd. rate. No timber. Undergrowth, shrubbery and grasses afford fair grazing. Dense undergrowth on 80.02 chs. November 13,1899.

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Subdivisions of T.36 S., R.17 W.-Continued.

Chains. N.,001' W., bet.secs.13 and 14; over rolling bench sloping. E. and N.E.; through dense sage undergrowth. Road bear N.100 E.and S.100 W. 15.50 Trail bears E.and W. 27.20 Set a lava stone I6xI0x8 ins., ll ins.in the ground, 40.00 for I/4 sec.cor., marked I/4 on W.face; dug pits I8x18x I2 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, W.of cor. Trail bears S.E.and N.W. 46.85 Trail bears $N.60^{\circ}$ E.and $S.60^{\circ}$ W. 59.90 Set a trachyte stone I4x8x6 ins., IO ins.in the ground, 80.00 for cor. of secs.11,12,13 and 14, marked with 4 notches on S.and 1 notch on E.edges; dug pits I8xI8xI2 ins., in each sec., 5 I/2 ft.dist.; and raised a mound of earth, 4 ft.base, 2 ft.high, W.of.cor. Line passes over rolling bench sloping E.and N.E. Soil, clay and gravelly; 2nd. rate. a. . the or each No timber. Undergrowth of sage with shrubberry and grasses afford fair grazing. Dense undergrowth on 80:00 chs... S.,89059' E.on a random line bet.secs.12 and 13. Set temp. I/4 sec.cor. 40.00 Intersect E.bdy.of Tp.,25 lks.S.of the cor.of secs. 80.00 7,12,13 and 18, heretofore described in Notes of survey of this bdy. Thence I run S.89050' W., on a true line bet.secs.12 and 13 Ascend over rolling bench on W.side of desert, slop-E.and N.E.; through dense sage undergrowth. Trail bears N.W. and S.E. 6.20 Trail bears N.W. and S.E. 18.00 Trail bears N.500 W. and S.500 E. 53.00 Set a trachyte stone I4xI4x7 ins., I0 ins.in the 40.00

ground, for I/4 sec.cor., marked I/4 on N.face; dug pits I8xI8xI2 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 I/2 ft. base, I I/2 ft. high, N. of cor

Chains 40.70 Leave dense sage undergrowth, bears N. and S. ; enter scattering sage. 45,20 Trail bears N.W. and S.E. Trail bears N.40° W.and S.40° E. 58.85 64.50 Enter dense sage undergrowth bears N. and S.; leave scattering sage. 80.00 The cor.of secs.11,12,13 and 14. Land rolling bench, sloping E. and N.E. Soil, rich clay intermixed with gravel; 2nd, rate, No timber. Undergrowth of sage with shrubbery and grasses afford good grazing. Dense undergrowth on 56.20 chs N.,001' W.bet.secs.ll and 12. Over slightly rolling bench on W.edge of desert, which slopes E.and N.E.; through dense sage undergrowth. Leave dense sage and enter scattering sage under-1,00 growth, bears N.E. and W. Trail bears 5.35° E.and N.35° W. 12.I8 24.88 Trail bears S.E. and N.W. Set a trachyte stone I8x8x6 ins., I2 ins.in the 40.00 Ground, for I/4 sec.cor., marked I/4 on W.face; dug pits I8xI8xI2 ins., W. and S. of stone, 3 ft.dust.; and and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, W. of cor. Trail bears S.IOO E.and N.IOO W. 40.88 Recross same trail bears $\rm S.10^{0}~W.$ and $\rm N.10^{0}~E.$ 42.38 Trail bears S.350 E.and N.250 W. 63.03 Trail bears S.250 E.and N.250 W. 76.78 Set a lava stone 22x8x6 ins., 17 ins.in the ground, - 80.00 for cor.of secs.1,2,11 and I2, marked with 5 notches on S.and I notch on E.edges; dug pits I8xI8xI2 ins., in each sec., 5 I/2 ft.dist.; and raised a mound of earth, 4 ft.base, 2 ft.high, W.of cor.

Land slightly rolling bench, sloping E. and N.E.

Set temp. I/4 sec.cor.

Trail bears S.E.and N.W.

18.62 Trail bears S.250 E.and N.250 W.

Trail bears S.400 E.and N.400 W.

374

: -

40.00

2.16

27.81

Subdivisions of T.36 S., R.17 W.-Continued.

Chains. Soil, clay and gravelly; 2nd. and 3rd.rate.

No timber.

Undergrowth, shrubbery and grasses afford fair grazing.

Dense undergrowth on I.00 chain.

November I4, I899: At this sec. cor., I set off I80

19 S.on the decl.arc; and, at llh45 a.m., l.m.t., observe the sun on the meridian; the resulting lat.is

370 41 N.

Intersect E.bdy.of the Tp., I2 lks.S.of the cor.of
secs.l,6,7 and 12, established by me, and described in
notes of Resurvey of this bdy.

Thence I run
S.89°45' W., on a true line bet.secs.l and 12.

Over slightly rolling bench on W.edge of desert; gradascending; through dense sage undergrowth.

39.71 Trail bears S.30° E.and N.30° W.

39.92 Set a lava stone I4x8x6 ins.,ll ins.in the ground,
for I/4 sec.cor.,marked I/4 on N.face;dug pits 18x18
xl2 ins.,E.and W.of stone 3 ft.dist.;and raised a
mound of earth,3 I/2 ft.base,I I/2 ft.high,N.of cor.

53.36 Trail bears S.30° E.and N.30° W.

64.26 Trail bears S.E.and N.W.
66.60 Leave dense sage undergrowth bears N.and S.; enter scattering sage.
77.26 Trail bears S.40° E.and N.40° W.

79.84 The cor.of secs.1,2,11 and 12.

Land, slightly rolling bench, sloping E. and N.E.

Soil, clay slightly intermixed with gravel, except

W. 6.50 chs., which is gravelly; 2nd. and 3rd. rate.

W. 6.50 chs., which is gravelly; 2nd. and 3rd.rate.

No timber.

Undergrowth, shrubbery and grasses afford fair grazing

Chains. Dense undergrowth on 66.60 chs.

November 14,1899:I set off 37042' N.on the lat arc;18020' S.on the decl. arc;and,at 2h45' p.m. l.m.t.,determine with the solar,a true meridian,at the cor.of secs.l,2,ll and l2,already described. Thence I run
N.001' W.,on a true line bet.secs.l and 2,knowing that a closing cor.will be necessary on N.bdy.of Tp. Over slightly rolling bench on E.side of foot hills, and W.edge of the desert:through scattering sage

2.05 | Trail bears S.30° E.and N.30° W.

undergrowth.

- 4.12 Dry well bears E.of line about 2.00 chs.dist.
- 11.37 Enter dense sage undergrowth, bears E.and W.; leave scattering sage.
- 18.02 Enteri scattering sage bears E.and W.; leave dense sage undergrowth.
- 19.75 Trail bears S.20° E.and N.20° W.
- 27.20 Trail bears N.20° W.and S.20° E. 34.12 Trail bears E.and W.
- 40.00 Set a volcanic stone 24xI0x4 ins., I8 ins.in the ground, for I/4 sec.cor., marked I/4 on W.face; dug pits I8xI8xI2 ins., N. and S. of stone, 3 ft.dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft. high, W. of cor.
- 44.32 The N.E.cor.stake of Kodock Mining claim bears E. of line I.65 chs.dist.
- 0ld road bears N.250 E.and S.250 W.; point of ridge with mining cabin on W.side, bears S.W.about I5.00 chs.dist
- 55.02 Trail bears N.W. and S.E.
- -74.00 Begin gradual ascent on S.slope adjoining foot hills, bears E.and W.
- 98.20 Old road bears N.E.and S.W.
- 111.00 Foot hills at top of slope bears E.and W.; ascend rapidly over S.slope of ridge; trail bears W.and S. 800 E

Chains. Top of sharp ridge about 75 ft.high, bears E. and N. 127.00 80° W.; descend over N.E. slope of ridge. Enter dense sage undergrowth, bears E.and W.; leave 135,00 scattering sage. N.E.foot of ridge bears S.300 E.and N.300 W.; thence 142.00 over rolling foot hills; leave dense sage undergrowth bears N.E. and S.W.; enter scattering sage. Begin ascent of ridges bears S.E. and N.W. 150.00 Trail bears S.E. and N.W. 157.50 Intersect 7th.Standard Parallel South ,24.83 chs.W. 162.94 of the old standard cor. of secs. 35 and 36, T. 36 S., R. 17 W., which is a volcanic stone 7x6x8 ins. above ground, marked and witnessed as described by the Surveyor General. Set a trachyte stone I5xI0x8 ins., I0 ins.in the

ground, for closing cor.of secs.l and 2, marked C.C. on S., with I groove on E. and 5 grooves on W.faces; and raised a mound of stone, 2 ft.base, I I/2 ft.high, S.of cor. Pits impracticable.

The cor.is on S.slope of ridge about 50 ft.above the foot of same.

Land mostly rolling bench with general slope Easterly, with mountainous land and broken ridges on North

ern part.

Soil, on bench clay intermixed with gravel; 2nd.rate.
On the ridges the soil is gravelly and stony; 3rd. and
4th.rate.

No timber.
Undergrowth, shrubbery and grasses afford fair grazing.
Mountainous land or land covered with dense undergrowth on 58.59 chs.

November 14,1899.

Chains. November I5, 1899: I set off 37038' N.on the lat arc; 180 33' S.on the decl.arc; and, at 9h45m a.m., 1.m. t., determine a true meridian with the solar, at the cor.of secs.26,27,34 and 35,on sectional correctional line, herefore described Thence I run S.00 l' E., on a true line bet.secs.34 and 35, knowing from previous retracement of S.bdy.of Tp.that a closing cor. will be necessary. Ascend over M.E., E. and S.E. slopes of broken ridges. 13.30 Wash about 15 lks.wide and 4 ft.deep, drains N. 750 E. 40.00 Set a trachyte stone I4x8x6 ins., IO ins.in the ground for I/4 sec.cor, marked I/4 on W.face; from which cor. A cedar I4 ins.dian., bears S.63030' W., 5I lks.dist., marked 1/4 S.,34,B.T. A cedar I6 ins.diam., bears N.85030' E.,84 lks.dist., marked I/4 S.35, B.T. .47.80 Wood road from Enterprise, bears S.E. and H.W. 59.15 Hollow about 50 lks.wide and 25 ft.deep, drains N. 80° E. Top of ridge about I50 ft.above the sec.cor., bears 70.00 N.60 E., descending, and S.600 W. ascending ; descend over S.E. slope of ridge. 76.80 Bottom of hollow at S.E.foot of ridge about 75 ft... below the top of ridge, about 60 ft. wide and 25 ft. deep, drains N. 600 E.; ascend over N.W. and N. slopes of ridge. 80.00 Intersect S.bdy.of Tp., S.89031' E., I.45 chs.dist., from old cor. of secss. 2, 3, 34 and d35, heretofore described in Notes of retracement of this bdy. Set a trachyte stone I4x9x4 ins., IO ins.in the ground for closing cor.of secs.34 and 35, marked C.C.on N. with 2 grooves on E.and 4 grooves on W.faces; and raised a mound of stone, 2 ft.base, I I/2 ft.high, N. of cor. Pits impracticable, Cor.is on Northerly slope of ridge about 50 ft.above the hollow.

I destroy the marks on the old cor. of secs. 2, 3, 34 and

2--

Subdivisions of T.36 S., R.17 W.-Continued.

Chains. 35, that pertain to secs. 34 and 35, and remark same for.cor.of secs.2, and 3,T.37 S.,R.17 W., only. Land mountainous and broken ridges. Soil, clay with intermixture of gravel on N.part, and gravelly and stony on the S.; 2nd and 4th rate. Timber, scattering cedar and nut pine on first and last I/4 miles; medium dense cedars and pines on 2nd. and 3rd.I/4 miles. Medium dense sage with shrubbery and grasses in abundance afford good grazing. Mountainous land on 80.00 chs. From the cor.of secs.26,27,34 and 35,on sectional correction line, already described; I run N.00 1' W., bet. secs. 26 and 27. . . Descend over N.E.slope of ridge. Foot of descent at S.W.foot of ridge, about 25 ft.be-3.00 low the sec.cor., bears S.50° E., descending, and N.50° W., ascending; ascend over S.W. slope of ridge. Top of ridge about I50 ft.high, bears N.W., and S.200 E 16.00 Descend over N.E. slope of ridge. Ravine about 50 lks.wide and 40 ft.deep, drains N. 21.40 750 E.; thence along E.slope of ridge, still descending. Ravine at foot of ridge about 50 lks.wide and 20 ft. 36.IO deep, and about 100 ft. below top of ridge, drains S. 80° E.; ascend from ravine over S.E. slope of ridge. Set a trachyte stone I5xI0x8 ins., I0 ins.in the 40.00 ground, for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I 1/2 ft.high, W. Pits impracticable. The cor.is on S.E. slope of ridge about 25 ft.above last ravine. Top of ridge about I50 ft.above the I/4 sec.cor.; descends rapidly to E.and rises N.700 W.;descend over N.E. slope of ridge. Bottom of hollow at foot of ridge about 50 ft.below 63.50

the top, about 50 lks. wide and 25 ft. deep, drains S.E.;

ascend over S.W. slope of ridge.

Chains. 69.25 Top of main ridge about 350 ft.high, bears N.80° E. and S.700 W.; about I5.00 chs.S.700 W., is a mountain peak about 400 ft.high.Descend rapidly over N.slope of high ridge. On; N.E. slope of ridge, still descending. 75.00. 80.00 Set a trachyte stone I5xI0x4 ins., IO ins.in the ground, for cor.of secs. 22, 23, 26 and 27, marked with 2 notches on S.and E.edges; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W.of cor. Pits impracticable. The cor.is on N.E.slope about 100 ft.below top of ridge. Land mountainous and broken. Soil, gravelly and stony; 3rd and 4th .rate. Timberscattering cedars on S.42.00 chs. Undergrowth of sage with shrubbery and grasses in sufficient quantity to afford good grazing. Mountainous land on 80.00 chs. November 15,1899; At this cor. of secs. 22,23,26 and 27, I set off 18034 30" S.on the decl.arc; and, at 11h 45^m a.m., l.m.t., observe the sun on the meridian; the resulting lat.is 37039' E., on a random line bet.secs.23 and 26. 40.00 Set temp. 1/4 sec. cor. Intersect N. and S.line, 7 lks. N. of the cor. of secs. 80.30 23,24,25 and 26, heretofore described. Thence I run N.890,57' W.on a true line bet.secs.23 and 26. Ascend over S.E. and S. slopes of ridges. Mountain peak about 200 ft.high, bears N.about 5.00 20.00 chs.; line crosses foot of peak on S. slope of ridge. On. N. slope of high ridge, still ascending. -26.00 Mountain peak about 250 ft.high, bears S.about 5.00 29.60

Top of ridge about 300 ft.high, bears N.650 W.and S. 600 E.; descend over N.W.slope of ridge.

of peak.

chs.; line passes over N.slope about 50 ft.below top

Chains.

Subdivisions of T.36 S.-R.17 W.-Continued

35.60 Descend over mass of volcanic stone about 40 ft.

high. Set a trachyte stone I5xI2x6.ins., I0 ins.in the 40.I5 ground, for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, N. of cor. Pits impracticable. The cor. is on N.W. slope of high ridge about 50 ft. below top of ridge; continue on descent over N.W.slope over spurs and hollows with course of drainage to N. Hollow at foot of ridge about 150 ft. below the top, on N.slope, about 50 lks.wide and 25 ft.deep, drains N.10° E.; ascend from hollow along N.slope of ridge. The cor.of secs.22,23,26 and 27, about 50 ft. above 80.30 last hollow on N.slope of ridge. Land mountainous and broken, Soilgravelly and stony; 3rd and 4th , rate. Timber, scattering cedars and juniper trees on 3rd. I/4 mile. Sage undergrowth with shrubbery and grasses in sufficient quantity to make fair grazing. Mountainous land on 80.30 chs. N.001' W., bet.secs.22 and 23; descending over N. and N.E.slopes of high ridge: M.foot of high mountain about 100 ft.below the sec. cor., bears N.600 W.and S.600 E.; thence over broken broken ridges and foot hills, still descending. Set a trachyte stone 20x12x8 ins., I5 ins.in the ground, for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W.of cor. Pits impracticable. Cor.is at N. and W. foot of ridges about 75 ft.below the ft.of high mountain; . thence over nearly level ground slightly rolling, wit general course of drainage to the S.E.; enter dense sage undergrowth bears N.E.and S.W. . . Road from St.George to Modena, bears S.500 E. and N. 50° W.; leave dense sage undergrowth bears S.E. and

72.40 77.47 80.00

Chains. N.W.; enter scattering sage; gradually ascend.

Trail bears E.and W.

Trail bears S.80° E.and N.80° W

Set a trachyte stone I2xI0x8 ins.,8 ins.in the ground, for cor.of secs.14,15,22 and 23, marked with 3 notches on S.and 2 notches on E.edges; dug pits I8

xI8xI2 ins.in each sec.,5 I/2 ft.dist.; and raised a mound of earth,4 ft.base,2 ft.high, W.of cor.

Land partly mountainous and broken ridges; partly rolling and nearly level land.

Soil, on the ridges, gravelly and stony; 3rd. and 4th. rate. On the rolling and nearly level ground, the soil

is clay, slightly intermixed with gravel; 2nd. rate.

Sage undergrowth partly scattering and partly dense, with shrubbery and grasses in sufficient quantity

to make fair grazing.

No timber, except scattering cedars on first I/2 mile.

Mountainous land or land covered with dense undergrowth on 70.90 chs.

November I5,1899.

40.00

80.40

40.20

5.,89°57' E.on a random line bet.secs.14 and 23.

Set temp. I/4 sec.cor.

Intersect N.and S.line, 35 lks. S. of the cor. of secs.

13,14,23 and 24,heretofore described.

Thence I run,

S.89° 48' W. on a true line bet.secs.14 and 23; gradually ascending over slightly rolling land;

through dense sage undergrowth.

32.95 Trail bears S.W. and N.E.

Set a trachyte stone I5xI0x3 ins., I0 ins.in the ground, for I/4 sec.cor., marked I/4 on N.face; dug pits I8xI8xI2 ins.E.and W.of stone, 3 ft.dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high,

W.of cor.

53.75 Trail bears S.E. and N.W.

59.00 Leave dense sage undergrowth bears S.E. and N.W.; enter

chains scattering sage. Trail bears S.400 E.and N.400 W. 65.00 Enter dense sage undergrowth bears S.E. and N.W.; leave 69.00 scattering sage. Leave dense sage undergrowth bears. N. and S.; enter 75.00 scattering sage. The cor.of secs.14,15,22 and 23. 80.40 Land slightly rolling sloping E.and S.E. Soil, clay with slight intermixture with gravel; 2nd. rate. No timber. Undergrowth of sage with shrubbery and grasses afford fair grazing. Dense undergrowth on 65.00 chs. N..001' W.bet.secs.14 and 15.. Gradually ascend over slightly rolling ground. Trail bears $N.60^{\circ}$ E.and S.60° W. . 19.00 Foot of ridges bears N.650 E.and S.650 W.; ascend 21.00 over S.E.slope of ridges. Set a volcanic stone I8xI0x4 in's., I2 ins.in the 40.00 ground, for I/4 sec.cor., marked I/4 on W.face; dug pits I8xI8xI2 ins. N.and S.of stone, 3 ft.dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, W.of cor. The cor.is on S.E. slope of ridge about 50 ft.above foot of same. Top of ridge about I50 ft.above the I/A sec.cor., 63.00 bears S.300 W.and N.450 E.; thence over top of ridge gradually ascending; enter dense sage undergrowth bears N.E. and S.W. Set a porphyry stone I0xI0x6 ins.,7 ins.in the 80.00 ground, for cor. of secs. 10,11,14 and 15, marked with 4 notches on S. and 2 notches on E. edges; dug pits I8x 18x12 ins., in each sec., 5 1/2 ft.dist.; and raised a

mound of earth, 4 ft.base, 2 ft.high, W. of cor.

Land mountainous and broken and slightly rolling

land.

Soil, clay and gravelly with part of mountain and

Chains. ridges covered with small boulders; 2nd. and .3rd.rate. No timber. Undergrowth of sage with shrubbery and grasses afford fair grazing. Along the S.edge of top of mountain are porphyry ledges showing indications of copper and silver ores. Mountainous land on 59.00 chs. $N.,89^{0}48'$ E.on a random line bet.secs.ll and 14. 40.00 Set temp. I/4 sec.cor. Intersect N.and S.line, //lks.S.of the cor.of secs. 80.48 11,12,13 and 14, heretofore described. Thence I run S.890 42' W., on a true line bet.secs.ll and 14. Gradually ascend on E.slope adjoining foot of hills. 3.55 Old road bears N.and S.. I3.65 Trail bears. N. and S. Foot of hills at top of slope bears N. and S. 300 W.; 22.00 ascend over S.E. and S. slope of ridges. Set a trachyte stone I6xI0x6 ins.,ll ins.in the 40.24 ground, for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I 1/2 ft.high, N. of cor. Fits impracticable. The cor.is on steep S.E. slope of ridge about 100 ft. above the sec.cor. 48.00 Top of ridge about IOO ft.above the I/4 sec.cor., on S.slope, bears N.and S.; descend over S.W.slope of ridge. Ravine about I.50 ch.wide and 75 ft.deep, drains S. 54.65 800 W.; ascend from ravine over E. and S.E. slopes of ridge. Top of ascent on S.E.slope 50 ft.above the ravine, 56.55 bears N. and S.; descend over broken porphyry ledges.

N. ascending, and S., descending; ascend abruptly over ledges.

62.00

Foot of ledges about 60 ft.below top of same, bears

63.65 Top of ledges about 40 ft.high, bears N.and S.; thence over top of ledges, still ascending.

ascend over top of mountain.

ores, bears N. of line about 160 lks.

Chains

73.00

74.75

Subdivisions of T.36 S., R.17 W.-Continued.

Top of mountain about 250 ft.high, bears N. and S.;

A prospector's pit about 7 ft.long,5 ft.wide and 4

enter dense sage undergrowth, bears N. and S.; gradually

ft.deep, with slight indications of copper and silver

Commence gradual descent over W.slope of mountain, 75.00 bears N.E.and S.W. The cor.of secs.10,11,14 and 15. 80.48 Land partly on E.slope adjoining foot hills; but mostly mountainous and broken; Soil, clay intermixed with gravel, gravelly and stony; 2nd and 4th rate. Indications of silver and copper ores on Sage undergrowth with shrubbery and grasses in abundance, which affords good grazing. Mountainous land on 80.48 chs. November 16,1899:At this sec.cor., I set off 18049' 30" S.on the decl.arc; and, at llh 45m a.m., l.m.t., observe the sun on the meridian; the resulting lat is 370 41 N.,00 1' W.,bet.secs.IO and ll.;gradually ascending. over top of mountain; through dense sage undergrowth. Commence to descend ober N.E.slope of mountain, bears S.E. and N.W. On N.W.slope of mountain still descending. 16.00 Hollow at foot of descent about 75 ft.below top of 22,00 mountain, about 75 lks. wide and 25 ft. deep, drains S. 70° W.; ascend from hollow over S. slope of ridge. Top of ridge about 60 ft.above the hollow, bears S. 28.00 800 W.and N.800 E.; descend over N.W.slope of ridge Set a trachyte stone 18x10x6 ins., 12 ins. in the groun 40.00 for I/4 sec.cor., marked I/4 on W.face; dug pits 18x18 xI2 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, W. of cor. The cor.is at foot of descent on \mathcal{S} slope of ridge, in

Chains. hollow which drains W., and about 75 ft.below top of last ridge; ascend over S. slope of ridge. 59.00 Top of ridge about 75 ft.above the 1/4 sec.cor., bears N.E.and S.W.; descend over N.W.slope of ridge . 77.00 N.foot of ridge about 100 ft.below top of last ridge, bears E.and W.; thence over broken foot hills, still descending. 00.08 Set a porphyry stone I2xI0x5 ins.,8 ins.in the ground for cor.of secs.2,3,10 and 11, marked with 5 notches on S.and 2 notches on E.edges; dug pits I8xI8xI2 ins., in each sec., 5° I/2 ft.dist.; and raised a mound of earth, 4 ft.base, 2 ft.high, W. of cor. Land mountainous and broken ridges. Soil, clay and gravelly with some parts stony; 2nd . and 3rd.rate. No timber. The ground is covered with dense. sage undergrowth, shrubbery and grasses, which afford good grazing. Mountainous land on 80.00 chs. November 16,1899:I set off 37042' N.on the lat arc; 18050 30" S.on the decl.arc; and, at 2h45m a.m., 1.m.t., determine a true meridian with the solar, at the cor.of secs. 2, 3, 10 and 11, heretofore described. Thence I run $N.,89^{0}42$ E., on a random line bet. secs. 2 and 11. Set temp. I/4 sec. cor. 40.00 Intersect N.and S.line 44 lks.N.of the cor.of secs. 80.46 1,2,11 and 12, heretofore described. Thence I run N.89059' W., on a true line bet.secs.2 and 11. Ascend over rolling E.slope adjoining foot hills: through scattering sage undergrowth. 3.60 Road bears N. and S. Trail bears N.300 W.and S.30 E. 4.95 Foot of ridges at top of slope bears N.and S.; ascend IO.46 over E.slope of ridges.

About I60 lks.N.is and old location monument.

I8.92

Chains. A Miner's cabin bears N.18030' E.about 37.00 chs. 23.50 on W.point of ridge, which bears N. 200 E. and S. 200 W. Top of ridge abaout 150 ft. above the sec. cor, bears 24.00 N.10° E., about 30.00 chs., and S.10° W. On this ridge are a number of prospector, s location monuments with indications of silver and copper ores. Commence to descent over N.W. slope of ridge, bears 24.72 00 E.and S.200 W. ;enter dense sage&leave scat-N.200 E.and S.200 W. The N.end center monument of the Dude mine bears N. 27.70 about 4.85 chs.dist.from line. About 50 lks. Sare two location monuments. 35.70 Foot of ridge about IOO ft. below the top, bears N.350 37.70 E.and S.350 W.; descend along N.slope of ridge. Set a porphyry stone I2xI2x5 ins.,8 ins.in the ground 40.23 for I/4 sec.cor.; and raised a mound of stone,2 ft. base, I I/2 ft.high, N.of cor. Pits impracticable. Continue over ridges and small hollows on N.slope of ridge. About 2.15 chs.N.of line are two location monuments. 62.70 A prospector's hole bears N.of line about 2.60 chs. Trail bears N.W. and S.E. 72.87 The cor.of secs. 2,3,10 and 11. 80.46 Land mostly mountainous and broken ridges, with E. 10.46 chs., on slope rolling. Soil, clay, gravelly and stony; 2nd.3rd.and 4th.rate. No timber. Sage undergrowth with shrubbery and grasses afford good grazing. Along the tops and sides of ridges are indications of silver and copper minerals, all covered with old and new locations which I am unable to trace on account of the conflicting locations. Mountainous land on 70.00 chs.

Chains.	From the cor.of secs.2,3,10 and 11,already de-
. ,	scribed, I run
	N.00 1' W., on a true line bet.secs.2 and 3, knowing
1	that closing cor.will be necessary on 7th.Standard
	Parallel South.
	Over low rolling hills and slope adjoining foot
	hills on S.and W.; through dense sage undergrowth.
2.70	Old road bears E.and W.
15.10	Old road bears N.500 E.and S.500 W.
32.00	Leave dense sage undergrowth bears N.E.and S.W.;en-
	scattering sage.
38.55	Trail bears N.500 W.and S.500 E.
40.00	Set a trachyte stone I4x8x6 ins., IO ins.in the
	ground, for I/4 sec.cor., marked I/4 on W.face; dug
- 1	pits I8xI8xI2 ins., N. and S. of stone, 3 ft. dist.; and
	raised a mound of earth, 3. I/2 ft.base, I I/2 ft.high,
	W.of cor.
41.68	Trail bears S.W. and N.E.
46.81	Trail bears E.and W.
50.45	Trail bears S.70° E.and N.70° W.
52.00	Foot of ridge bears N.E.and S.W.; ascend over S.E.
	slope of ridge.
67.10	Trail bears N.50° W., and S.50° E.
110.00	Begin to ascend more rapidly over S.slope of ridge.
1 20.00	On S.W.slope of ridge about 250 ft.above the I/4 sec.
	cor., still ascending.
125.00	Top of mountain about 280 ft high, bears 5.20° E. and
	N.20° W.; thence over top of mountain gradually as-
	cending.
129.00	Commence to descend over N.E. slope of mountain,
- 3.	bears N.W. and S.E.
139.00	Foot of mountain about 125 ft.below the top, bears
	S.40° E. and N.40° W.; ascend over S.W. slope of high
	mountain.
-157.50	Top of mountain about 200 ft.ahove the foot of same,
	bears S.35° E.and N.35° W. ; descend over N.slope of
	mountain.
162.50	
1.0532	of the standard cor. of secs. 34 and 35, T. 35 S., R. 17 W.

which is a granite stonellx8x6 ins.above ground,

chains.

General:

S.of cor.

Subdivisions of T.36 S., R.17 W .- Continued.

marked and witnessed as described by the Surveyor

Set a granite stone I5xI0x5 ins., I0 ins. in the

Pits impracticable.

ground, for closing cor. of secs. 2 and 3, marked C.C. on S., with 2 grooves on E. and 4 grooves on W. faces; and raised a mound of stone, 2 ft. base, I I/2 ft. high,

Cor.is on N slope about 50 ft.below top of mountain. Land slightly rolling on S.52.00 chs., mountainous and broken ridges on N.IIO.50 chs. Soil, clay, gravelly and stony; 2nd., 3rd. and 4th.rate. No timber. Undergrowth of sage with shrubbery and grasses make good grazing. Mountainous land or land covered with dense undergrowth on 142.50 chs. November 17,1899:At this closing cor., I set off 1904 S.on the decl.arc; and, at. 11h 45m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37°43' N. November 17,1899:I sett off 37038 N.on the lat.arc; 190 5' S.on the decl.arc; and, at 2h 45m a.m., l.m.t., determine a true meridian with the solar, at the cor.of secs.27,28,33 and 34,on sectional cor- . rection line, heretofore described. Thence I run S.,00 2' E.on a true line bet.secs.33 and 34,knowing from previous retracement of S.bdy.of Tp.that a clos ing cor.will be necessary. Descend over S. slope of ridge. Bottom of hollow about 50 ft.below the sec.cor., I.00 drainsNW.; ascend from hollow over N. slope of ridge. Top of ridge about 75 ft.high, bears N.250 E.and S. ,6.50 25° W.; descend over S.E.slope of ridge. Foot of ridge about 75 ft.below the top bears N.250 IO.80. E.and S.25° W.; ascend over N.W. slope of ridge. Top of ascent on W. slope of knoll about I50 ft.high, 18.00

....

Subdivisions of T.36 S., R.17 W.-Continued.

Chains. and 25 ft.below top of knoll, which bears E.about 2.00 chs.; descend over W.and S.W.slopes of knoll and ridges. 26.00 Foot of ridges about I25 ft.below top of ascent bears S.10° E.and N.10° W.; ascend over N.W.slope of ridges. 31.00 Top of ridge about 75 ft.high, bears E.and W.; descend over S.W. and S. slopes of ridges. 40.00 Set a trachyte stone I2xI0x8 ins.,8 ins.in the ground, for I/4 sec.cor., marked I/4 on W.face; from which cor., A cedar 8 ins.diam., bears S.690 W.,55 lks.dist., marked I/4 S.,33,B.T. A cedar 8 ins.diam., bears 5.48 $I/4^{\circ}$ E., I06 lks.dist., marked I/4 S., 34, B.T. Trail bears N.65° W.and S.65° E. 50.46 Wash at foot of ridge about I25 ft.below top about. 50.56 about 6 lks.wide and 4 ft.deep, drains W.ascend over N.and N.E.slope of ridge. Top of ridge about IOO ft.high, bears E.and W.; de-63.00 scend over S.W.slope of ridge. 74.70 Foot of ridge and hollow drains to W.; ascend over N.W.slope of ridge. 80.16 Intersect S.bdy.of Tp., I.87 chs., S.89059' E.of the old cor.of secs. 3,4,33 and 34, heretofore described in notes of retracement of this bdy. Set a trachyte stone I6xI0xI0 ins., ll ins.in the ground, for closing cor.of secs.33 and 34, marked C.C. on N., with 3 grooves on E. and W. faces; and raised a. mound of stone, 2 ft.base, I I/2 ft.high, N.of cor. Pits impracticable.Cor.is on N.W.slope of ridge about 75 ft.above hollow. I destroy the marks on the old cor. of secs. 3, 4, 33 and 34, which pertain to secs. 33 and 34, and remark same for cor. of secs. 3 and 4,T.37 S.,R.17 W., only. Land mountainous and broken ridges.

Soil, clay, gravelly and stony; 3rd. and 4th. rate.

Timber, medium dense cedars on N.30.00 chs.; scattering

Chains. cedars on S. 50.16 chs. Medium dense sage undergrowth with shrubbery and grasses afford good grazing. Mountainous land on 80.16 chs. From the cor.of secs.27,28,33 and 34,on sectional correction line, already described, I run N.00 2' W., bet. secs. 27 and 28. Ascend over S.W. and S. slopes of ridges; through scattering cedars. Leave scattering cedars bears E.and W. 10.00 Top of ridge about 750 ft. above the sec.cor., bears E. 14.00 Ravine at foot of ridge about 60 ft.below top,50 lks. 20.00 wide and 25 ft.deep, drains W.; ascend from ravine over S.E.and S.slopes of high mountain. Enter lava beds bears S.200 E.and N.200 W.; ascend . 35.00 rapidly over masses of lava stone. Leave lava bed bears E.and W. 39.00 Set a volcanic stone I8xI0x6 ins., I2 ins.in the 40.00 ground, for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W. of cor. The cor.is on S.slope of high ridge about I50 ft.above the ravine. Top of mountain about 250 ft.high, bears W.and S.70° 48.00 E.; descend along top of mountain on E.slope. Commence rapid descent over N.E.and N.slopes of high 69.00

mountain bears S.E. and N.W.

Enter dense cedars and nut pine timber, bears E. and W.

Leave dense cedars and pines, bears E. and W.; enter

scattering cedars and pines.

70.00

78.00.

Set a trachyte stone I4xI2x8 ins., IO ins.in the ground, for cor. of secs.21,22,27 and 28, marked with 2 notches on S. and 3 notches on E. edges; and raised a mound of stone, 2 ft. base, I I/2 ft. high, W. of cor. Pits impracticable.

The cor. is on N. E. slope of high mountain about I25

ft.below top of same.

Chains. Land mountainous and broken Soil, gravelly and stony; 3rd. and 4th. rate. Timber, scattering cedars on S.IO.00 chs.; dense and scattering cedars and nut pine on N.10.00 chs.; scattering juniper trees along the line. Sage undergrowth with shrubbery and grasses afford fair grazing. Mountainous land on 80.00 chs. November 17,1899. E., on a random line bet.secs.22 and 27. 40.00 Set temp. I/4 sec. cor. 80.I2 Intersect N. and S.line, 2 lks. S. of the cor. of secs. 22,23,26 and 27, heretofore described. Thence L run S.89059' W.on a true line bet.secs.22 and 27. Ascend along N.slope of ridge. .. About I0.00 chs.S.of line is mountain peak about 19.00 300 ft.high, covered with scattering cedars. Top of spur on N.slope of ridge, about 75 ft. above the 21.00 sec.cor., bears .N.and S.; descend over N.W.slope of spur. Foot of descent on M. slope of high ridge, about 50 ft 25.30 below top of spur, bears N. and S.; thence over spurs and hollows along N.slope of high ridge. Set a trachyte stone I5xI0x5 ins., I0 ins.in the 40.06 ground, for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I 1/2 ft.high N. Pits impracticable. of cor. Commence to ..ascend N.E.slope of high mountain, bears 53.30 bears N.W. and S.65 ° E. On N.slope of high mountain, still ascending. 70.00 The cor.of secs.21,22,27 and 28. -80.I2 Land mountainous and broken ridges. Soil, gravelly and stony; 3rd, and 4th.rate.

Timber, scattering cedars on E.20.00 chs., and scattering cedars and medium dense cedars and pines on

W.22.00 chs.

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Subdivisions of T.36 S., R.17 W.-Continued.

Chains. Medium dense sage undergrowth with shrubbery and grasses afford fair grazing. Mountainous land on 80.12 chs. N.002' W., bet.secs.21 and 22; descending rapidly over H.E.and N.slope of high ridge or mountain; through medium dense cedars and nut pine timber. Leave cedars and pines bears E.and W. 14.00 N.foot of ridge about 200 ft.below the sec.cor., 26,00 bears S.750 W.and N.750 E.; thence over broken foot hills and ridges still descending. Set a trachyte stone I5xI0x8 ins., I0 ins. in the 40.00 ground, for I/4 sec. cor.marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W. Pits impracticable. of cor. Foot of descent about 75 ft.below the I/4 sec.cor., 69.70 bears E.and W.; ascend over S.slope of ridge. / Top of ridge about 50 ft.high, bears S.E. and N.W.; . 75.50 descend over N.E.slope of ridge. Set a lava stone I8xI2x5 ins., I2 ins.in the ground, 80.00 for cor. of secs. 15, 16, 21 and 22, marked 36 S. on N.E., and I7 W.on S.E.faces, with 3 notches on S.and E. .. edges; and raised a mound of stone, 2 ft.base, I I/2 ft.high, Wofcor Pits impracticable. Cor.on N.E.slope of ridge about 40 ft.below top of ridge. Land mountainous and broken ridges. Soil, stony and gravelly; 4th. and 3rd. rate. Timber, cedars and nut pines, scattering and medium dense, on S.I4.00 chs. . Mountainous land on 80.00 chs. N.890 59' E.on a random line bet.secs. I5 and 22.

Intersect N. and S.line, 2 lks. S. of the cor. of secs.

14,15,22 and 23, heretofore described ...

40.00 Set temp. I/4 sec. cor.

Thence I run

80.20

S.89°58' W.on a true line bet.secs.15 and 22. Chains. Ascend gradually over nearly level narrow valley: through dense sage undergrowth. IO.35 Wash about 20 lks.wide and 4 ft.deep, drains N.80°E.; leave dense sage undergrowth bears N.and S.; enter scattering sage. 28.45 Wash about I2 lks.wide and 4 ft.deep, drains N.700 E. 30.IO Road from St.George to Modena, bears S.700 E. and N. 700 W. Trail bears S.700 E.and N.700 W. 31.20 Trail bears S.650 E.and N.650 W. 37.IO Set a volcanic stone I8xI2x5 ins., I2 ins.in the 40.IO ground, for I/4 sec.cor., marked I/4 on N.face; dug pits I8xI8xI2 ins., E. and W. of stone, 3 ft.dist.; and raised a mound of earth 3 I/2 ft.base, I I/2 ft.high, Point of volcanic bluff on N. side of N.of cor. narrow valley, about 50 ft.high, bears N.about 7.00 chs.dist from the I/4 sec.cor. Wash about 20 lks.wide and 3 ft.deep, drains S.650 E. 40.85 Trail bears N.750 E.and S.750 W. 56.35. Trail bears N.850 E.and S.850 W. 60.40 Leave level land bears S.E.and N.W.; begin ascent of 62,60 broken ridges on W.side of narrow valley or canon. The cor.of secs. 15, 16, 21 and 22. 80.20 Land mostly level sloping S.E., with broken ridges on W.17.60 chs.

Soil in the valley or canon clay and gravelly with more gravel on the ridges; 2nd, and 3rd, rate. No timber.

Undergrowth, shrubbery and grasses afford fair grazing. Mountainous land or land covered with dense undergrowth on 27.95 chs.

November 18,1899:At this cor.of secs.15,16,21 and 22, I set off 19018' S.on the decl.arc; and, at llh 45' a.m., l.m.t., observe, the sun on the meridian; the resulting lat.is 37040'

	Subdivisions of 1.00 5.4.
Chains	
	N.00 2' W.bet.secs. I5 and I6.
	Descend over E.and N.E.slope of broken ridges.
19.00	Foot of ridges about 75 ft.below the sec.cor., bears
	N.80° W.; and S.80° E.; thence over nearly level ground
	sloping Easterly.
23.40	Road from St.George to Modena, bears S.40° E. and II.
	50° W.
25.20	Trail bears S.75° E.and N.75° W.
34.40	Wash 25 lks.wide and 4 ft.deep, drains E.about I.00
	ch., thence S.30° E.
34.50	Trail bears S.30° E.and N.30° W.; begin ascent of
	broken ridges bears S.30° E.and H.30° W.; leave narrow
	valley or canon.
40.00	Set a volcanic stone 20xI2x3 ins., I5 ins.in the
	ground, for I/4 sec.cor., marked I/4 on W.face; and
	raised a mound of stone, 2 ft.base, I I/2 ft.high, W.
	of cor. Pits impracticable. Cor.is on W.slope of
٠,	ridges about 75 ft.above foot of same.
78.00	Top of ridge about I25 ft.above the I/4 sec.cor., .
	bears S.350 E. and N.350 W.; thence over rolling top. of
•	ridge.
80.00	Set a trachyte stone I5xI5x4 ins., I0 ins.in the
197 .	ground, for cor.of secs.9,10,15 and 16, marked with
(2 / 5°	4 notches on S.and 3 notches on E.edges; and raised
1,7	a mound of stone, 2 ft.base, I I/2 ft.high, W.of cor.
	Pits impracticable.
	Land, mostly mountainous and broken ridges; narrow
	valley or canon nearly level.
	Soil, clay, gravelly and stony; 2nd. and 3rd.rate.
	No timber.
	Scattering sage undergrowth on S.62.00 chs.;dense
	sage on N.18.00 chs.; which with shrubbery and grasses
	afford good grazing.
	Mountainous land on 64.50 chs.
1	· ·

Chains. N.,89°58' E.on a random line bet.secs.IO and I5. 40.00 Set temp. I/4 sec. cor. 80.08 Intersect N. and S.line, 21 lks. S. of the cor. of secs. IO,11,14 and 15, heretofore described. November 18,1899:At this sec.cor., I set off 370 40' 30" N.on the lat.arc; 19018' S.on the decl.arc; and at 3h45m p.m.l.m.t., determine a true meridian with the solar; thence I run S.89°49' W.on a true line bet.secs.IO and I5. Descend over W. and N.W. slopes of ridges, through dense sage undergrowth. I4.05 About 3.00 chs.N.of line is a prospect pit and monumant, with slight traces of silver and copper ores 40.04 Set a porphyry stone I6xI2x5 ins., II ins.in the ground, for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, N. of.cor. . Pits impracticable. Corner on W.slope of ridge about IOO ft.below the sec.cor. Foot of descent about 25 ft.below the I/4 sec.cor., 50.80 drains S.; trail bears N. and S. 5I.55 Begin ascent of ridge bears N. and S. 80.08 The cor.of secs.9, IO, I5 and 16., on top of ridge about 50 ft.above E.foot of same. Land mountainous and broken ridges.

Soil, clay, gravelly and stony; 2nd., 3rd. and 4th. rate.

Soil, clay, gravelly and stony; 2nd., 3rd. and 4th. rate: No timber.

Dense sage with thick shrubbery and grasses afford good grazing.

Mountainous land on 80.08 chs.

growth. hef. Secs. 9 and. 10.

November 18,1899.

November 20,1899:I set off 37041' N.on the lat.arc; I9043' S.on the decl.arc; and, at 8h46m a.m., l.m.t., determine with the solar a true meridian, at the cor.of secs.9, I0, I5 and 16, heretofore described. Thence I run
N.,002' W.over top of ridge; through dense sage under-

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ģ:	hains.	
	14.00	Commence to descend over N.E. slope of ridges bears
	•	N.W.and S.E.
	22.00	Foot of descent about 60 ft.below top of ridge, bears
		E.and W.; ascend over S.slope of ridge.
	27.50	Top of ridge about 50 ft.high, bears E.and W.;descend
	· ·	over N.E.slope.
	40.00	Set a trachyte stone I8xI0x6 ins., I2 ins.in the
		ground, for I/4 sec.cor., marked I/4 on W.face; dug
		pits I8xI8xI2 ins., N. and S. of stone, 3 ft. dist.; and
		raised a mound of earth, 3 1/2 ft.base, I 1/2 ft.high,
	•	W.of cor. Cor.is on N.E.slope of ridge about 30 ft.
		below top of last ridge.
	44.00	Foot of descent about I5 ft.below the I/4 sec.cor.,
		drains to the S.E.; ascend over S.W. slope of ridge.
	45.28	Old road bears N.75° E.and S.75° W.
	53.00	Top of ridge about 50 ft.high, bears N.300 W.and S.
	•	30° E.; descend along N.E.slope of ridge.
	62.50	Foot of descent about 30 ft.below top of last ridge
		drains to S.E.; ascend over S.W. slope of high ridge.
	80.00	Set a porphyry stone I5x8x6 ins., IO ins.in the ground
		for cor.of secs.3,4,9 and IO, marked with 5 notches on
		S.and 3 notches on E.edges; dug pits I8xI8xI2 ins., in
		each sec.,5.1/2 ft.dist.; and raised a mound of earth
		4 ft.base, 2 ft.high, W.of cor.
	APRO	This cor.is on top of ridge about 75 ft.above foot
		of same.Ridge bears S.E.and N.W.
		Land mountainous and broken ridges.
		Soil, clay and gravelly, and slightly stony; 2nd, and 3rd
		rate.
		No timber:
		Dense undergrowth of sage with shrubbery and grasses
	•	afford good grazing:
		Mountainous land on 80.00 chs.

3/

Subdivisions of T.36 S., R.17 W.-Continued.

Chains.	N.89049 E.on a random line bet.secs.3 and IO.
40.00	Set temp.I/4 sec.cor.
80.12	Intersect N. and S.line, I8 lks. N. of the cor. of secs.
	2,3,10 and ll,heretofore described.
	Thence I run
	S.890 57' W.on a true line bet.secs.3 and IO.
	Along N.E.slope of ridges; through dense sage under-
,	gröwth.
6,88	Old road bears N.70° E.and S.70° W.
I6.00	Road bears N.650 E.and S.650 W.
26.00.	Begin ascent over S.E.slope of ridge, bears S.300 W.
	and N.300 E.
35.00	Top of ridge about 50 ft.high, bears N. and S. 400 W.;
	descend over S.W.slope of ridge.
40.06	Set a lava stone I8xI8x6 ins., I2 ins.in the ground,
•	for I/4 sec.cor., marked I/4 on N.face; dug pits I8x
,	I8xI2 ins., E. and W. of stone, 3 ft. dist.; and raised a
	mound of earth, 3 I/2 ft.base, I I/2 ft.high, N.of cor.
	This cor.is at foot of descent about 40 ft.below top
	of last ridge. Ascend.
42.50	Top of ridge about 40 ft. above the $I/4$ sec.cor., .
	bears N.400 W.and S.400 E.; thence over hollows and
	low ridges over top of main ridge.
66.00	Main hollow about I.50 ch.wide and 50 ft.deep, drains
	S.20° E.in a winding course across the sec.
80.12	The cor.of secs. 3,4,9 and IO.
	Land mountainous and broken ridges.
	Soil, clay and gravelly, with streaks of stony ground;
	2nd.,3rd.,and 4th.rate.
	No timber.
	Dense sage undergrowth and shrubbery and grasses .
	afford good grazing.
•	Mountainous land on 80.12 chs.
	i '

From the cor.of secs.3,4,9 and IO,already described, I run

N.00 2' W., on a true line bet.secs. 3 and 4, knowing that a closing cor.will be necessary on N.bdy.of Tp.

Phains. Ascend over main ridge crossing small hollows and low ridges, with general course of drainage to S.E. Trail bears S.E. and N.W. I3.30 Set a porphyry stone I6xI0x5 ins., II ins.in the 40.00 ground, for I/4 sec.cor., marked I/4 on W.face; dug pits I8xI8xI2 ins., N. and S. of stone, 3 ft.dist.; and raised a mound of earth, 3 I/2 ft.base, I/2 ft.high, W.of cor. This cor. is on S.E. slope of main ridge, about 60 ft.above the sec.cor. November 20,1899:At this I/4 sec.cor., I set off. 190 46' S.on the decl.arc; and, at 11h 46m a.m., 1.m.t., observe the sun on the meridian; the resulting lat. is.3704I' "N. A knoll about 250 ft light and 20.00 chs.diam.at base, 50.00 bears N.520 E., about 35.00 chs.dist.from this point. Top of ascent.on high ridge about 75 ft.above the 56.00 I/4 sec.cor., bears S.E. and N.W.; descend over N.E. slope of ridges. Trail bears N.500 W.and S.500 E. 73.28 Trail bears E.and W. 77.33 N.foot of ridge about 125 ft.below top, bears S.650 E. 77.75 and N.650 W., with course of drainage to S.650 E.; ascend over S.slope of ridge. Top of first ascent about I50 ft.high, bears E.and W.; 100.00 116.00 On S.W.slope of ridge, still ascending. On W.slope of ridge, still ascending. 134.00 Top of ascent on W.slope of high mountain about 350 143.00 ft.high, and 40 ft.below top of mountain, bears N.250 E.and S.250 W.descend gradually over N.W.slope of mountain. Commence rapid descent over N. slope of mountain. I55.00 Ravine at N. foot of mountain, about 50 lks. wide and 162.00 IO ft.deep, about IOO ft.below top of mountain, drains N.800 W.; ascend from ravine over S.slope of .high ridge. Intersect 7th.Standard Parallel South, 26.35 chs.W. I62.63 of the standard cor. of secs. 33 and 34, which is a volcanic stone 20x12x8 ins.,12 ins.deep in a mound of stone, marked and witnessed as described by the Sur-

veyor General.

Chains. Set a trachyte stone I8xI2x8 ins.,I2 ins.in the ground,for closing cor.of secs. 3 and 4,marked C.C. on S.,with 3 grooves on E.and W.faces; and raised a mound of stone,2 ft.base,I I/2 ft.high,S.of cor. Pits impracticable.

Land mountainous and broken.

Soil,clay,gravelly and stony;2nd.,3rd.and 4th.rate.

No timber.

Sage undergrowth with shrubbery and grasses afford good grazing.

Mountainous land on I62.63 chs.

At the cor.of secs.28,29,32 and 33,on Sectional Correction Line, heretofore described, I run S.00 3 E.on a true line bet.secs.32 and 33, knowing from previous retracement of S.bdy.of Tp. that a closing cor.will be necessary.

Descend along E.slope of ridges.

- 8.65 Hollow about 50 lks.wide and 20 ft.deep,drains S.
- 80° E.; ascend from hollow over N.W. slope of ridge.

 17.68 Top of ridge about 75 ft. above the hollow, bears E.
- and W.; thence over top of ridges.
- 20.70 Commence to descend over S.slope of ridges bears W. and S.350 E.
- 34.70 S.foot of ridges about 75 ft.below top of same bear's S.800 W.and S.250 E.; ascend over broken foot hills and ridges with general course of drainage to S.E.
- 40.00 Set a trachyte stone I2xI2x8 ins.,8 ins.in the ground, for I/4 sec.cor., marked I/4 on W.face; dug pits I8xI8xI2 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 I/2 ft. base, I. I/2 ft. high, W. of cor.
- 2.00 Wash I5 1ks.wide and 4 ft.deep, drains E, about I.00 ch., thence S.E.
 - 57.68 Begin ascent of high mountain, bears N.80° E.and S. 80° W.; leave foot hills and ridges.
 - 79.68 Intersect S.bdy.of Tp.,2.27 chs.,dist.,S.89051' E. from the old cor.of secs. 4,5,32 and 33,heretofore

chains described in Notes of retracement of this bdy.

Set a trachyte stone I4xI2x8 ins., 10 ins.in the

ground, for closing cor. of secs. 32 and 33, marked C.C. on N., with 4 grooves on E. and 2 grooves on W.face;

and raised a mound of stone, 2 ft.base, I I/2 ft.high,

N.of cor. Pits impracticable. This cor.is on 'N.E.

slope of high mountain about IOO ftwabove foot of

same.

Land mountainous and broken ridges.

Soil, clay, gravelly and stony; 3rd and 4th.rate...

Timber, scattering cedars on S.30.00. chs.

Sage undergrowth, shrubbery and grasses in sufficient

quantity to make good grazing. Mountainous land on 79.68 chs.

November 20,1899.

November 21,1899:I set off 37038' N.on the lat.arc; 19058' S.on the decl.arc; and, at 9h46m a.m.,

the cor. of secs. 28, 29, 32 and 33, on sectional correction line, heretofore described.

1.m.t., determine a true meridian with the solar, at.

Wood road and road from Enterprise to Modena bears

2.35

34.00

40.00

4I.40

47.40

S.30° E.and N.35° W.

Thence I run .. N.00 3' W., bet.secs.28 and 29.

Ascend over broken ridges and hollows with general course of drainage to S.E.

Top of ascent about IOO ft.above the sec.cor., bears

S.50° W.and N.50° E.; descend; Set a trachyte stone I4xI0x6 ins., I0 ins. in the

ground, for I/4 sec.cor, marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I 1/2 ft.high, W.

Pits impracticable.

Hollow about 50 lks.wide and 25 ft.deep, drains W.; ascend from hollow.

700 E.; descend.

Top of ridge about 50 ft.high, bears N. 700 W. and S.

Hollow at foot of ridges, about 50 ft. below top of 57.20



	Subdivisions of T.36 S., R.17 WContinued.
Chains.	last ridge, about 50 lks.wide and 25 ft.deep, drains S.80° W.; ascend from hollow along W.slope of high ridge.
80.00	Set a trachyte stone I2xI0x6 ins.,8 ins.in the ground for cor. of secs.20,2I,28 and 29, marked with 2 notches on S. and 4 notches on E.edges; and raised a mound of stone,2 ft.base,I I/2 ft.high,W.of cor. Pits impracticable. Corner is on W.slope of ridge about 75 ft.above last hollow. Isand mountainous and broken ridges. Soil, gravelly and stony; 3rd. and 4th.rate. Timber, scattering juniper on S. I/2 mile. Dense sage undergrowth with shrubbery and grasses afford fair grazing. Mountainous land on 80.00 chs.
	E., on a random line bet.secs.21 and 28.
40.00	Set temp.I/4 sec.cor.
80,06	Intersect N.and S.line, 8 lks.S.of the cor.of secs.
	21,22,27 and 28, heretofore described. Thence I run S.89057' W., on a true line bet.secs. 21 and 28. Ascend over N.slope of ridge.
3.00	Top of ascent, about 30 ft. above the sec. cor., bears
	N.and S.; descend over N.W. slope of ridge.
40.03	Set a trachyte stone I4xI2x4 ins., I0 ins.in the ground, for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, N. of cor. Pits impracticable.
	Cor.is on N.W.slope of high mountain or ridge, about
, .	200 ft.below top of ridge .
45.00	N.W.foot of mountain about 50 ft.below the I/4 sec.
-	corner, bears N.30° E.descending, and S.30° W., ascend-
	ing; ascend over E. slope of ridge.

Top of ridge about 125 ft. above foot of same, bears 68.00 N.10° W. and S.10° E.; descend over W. slope. The cor.of secs.20,21,28 and 29, on W.slope about 80 80,06

ft.below top of ridge.

Thaine	Land mountainous and broken.
mains.	Soil, gravelly and stony; 4th. rate.
•	Timber, scattering cedars and juniper on E.70.00 chs.
•	Undergrowth of sage, shrubbery and grasses afford .
	fair grazing.
	Mountainous land on 80.06 chs.
•	November 21,1899:At this sec.cor., I set off 190
	59' S.on the decl.arc; and, at llh46m a.m., L/m.t.,
	observe the sun on the meridian; the resulting lat.
	is 37039' "II.
	15 37 39 H.
	·
	N/,003' W.,bet.secs.20 and 2I.
	Ascend over W.and S.W.slopes of ridges.
3.10	Top fif spur on W.slope about 50 ft.above the sec.cor.
	bears E.and W.;descend.
5.80	Hollow about 40 ft.below top of spur, about 50 lks.wid
	wide and 25 ft.deep, drains S.700 W.; ascend from hol-
	low over S.W.slope of ridge.
21.50	Top of ridge about IOO ft.above the hollow, bears N.
	500 W.and S.500 E.; descend over N.slope of ridge,
	very rocky and broken.
40.00	Set a trachyte stone I5xI2x6 ins., I0 ins. in the
	ground, for I/4 sec.cor., marked I/4 on W.face; and
	raised a mound of stone, 2 ft.base, I 1/2 ft.high, W.
	of cor. Pits impracticable; Cor.in on N.slope of
	ridge, about ISO ft. below top of ridge.
አ ማ ድΛ	M.foot of ridge or mountain, about 150 ft. below the
J1,60	11/4 sec.cor., bears 11.600 W. and S.600 E.; thence over
	broken ridges and foot hills, still descending.
7/ 00	Leave ridges and foot hills bears S.E.and N.W.; thence
74,00	
00.00	fover nearly level valley, still descending.
80.00	Set a lava stone 20x14x6 ins., 15 ins. in the ground,
•	for cor. of secs. 16,17,20 and 21, marked with 3 notches
3373	on S.and 4 notches on E.edges; dug pits I8xI8xI2 ins. in each sec.,5 I/2 ft.dist.; and raised a mound of
7,4.	
	earth, 4 ft.base, 2 ft.high, W. of cor.
	Land mostly mountainous and broken ridges with nar-
	•

row valley on N.

43

Subdivisions of T.36 S., R.17 W.-Continued.

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Chains.	Soil, stony, gravelly and clay loam; 4th., 3rd., and 2nd.	
	Timber, scattering cedars and juniper on N.57.00 .	
	Medium dense undergrowth of sage with shrubbery and	
	grasses afford good grazing.	
	Mountainous land on 74.00 chs.	
	modifications raid on 74,00 cms.	
	N.89057' E.on a random line bet.secs.16 and 21.	
40.00	Set temp. I/4 sec. cor.	
80.12	Intersect N.and S.line 5 lks.S.of the cor.of secs.	
00,12	15,16,21 and 22, heretofore described	
	Thence I run	
	S.89° 55' W.on a true line bet.secs. I6 and 2I.	
	Ascend over M.E. slope of ridges; through dense sage	
	undergrowth.	
11.40	Top of ridge about 40 ft.high, bears H. and S.; descend	
	over S.W.slope of ridges.	
24.40	Foot of descent about 50 ft.below top of last ridge,	
	bears N. and S.; ascend over E.slope of ridge.	
30.40	Top of ridge about 40 ft.high, bears N.300 E.and S.	
	30° W.;descend over H.W.slope of ridges.	
40.06	Set a lava stone I6xI0x6 ins., Il ins. in the ground,	
	for I/4 sec.cor., marked I/4 on W.face; and raised a	
	mound of stone, 2 ft.base, I 1/2 ft.high, N.of cor.	
	Pits impracticable. Cor.is on N.W.slope about 30 ft.	
	below top of last ridge.	
46.00	Foot of ridges about 30 ft.below the I/4 sec.cor.,	
	and enter narrow valley bears N.200 E.and S.200 W.	
	Trail bears H.and S.; thence over nearly level and	
	slightly rolling land, gradually ascending.	
80.12	The cor.of secs.16,17,20 and 21.	
-	Land partly mountainous and broken ridges and partly	
	nearly level and slightly rolling.	
	Soil, clay and gravelly; 2nd and 3rd .rate.	
	No timber.	
	Dense sage undergrowth with shrubbery and grasses	
	which afford fair grazing.	

Chains.	Mountainous land or land covered with dense under- growth on 80.12 chs.
	·
	N.,0° 3' W.,bet.secs.16 and 17.
	Over nearly level land; through dense sage under-
, 9 , 00	growth. Enter low broken ridges on N. side of narrow valley,
, 9,00	bears N.75° E.and S.75° W.; ascend.
z o oo	Top of ascent of ridges about IOO ft.above the sec.
39.00	cor., bears N.60° E.and S.60° W.; descend over broken
	ridges and hollows, with course of drainage to E. and
40.00	N.E. Set a trachyte stone, I6xI0x8 ins., II ins.in the
40.00	ground, for I/4 sec.cor., marked I/4 on W.face; and
	raised a mound of stone, 2 ft.base, I I/2 ft.high, W.
	of cor. Pits impracticable.
40.60	Wash at N.foot of ridges about 50 ft.below the I/4
48.60	sec.cor.,20 lks.wide and 5 ft.deep,drains N.50° E.;
	foot of ridges bears 5.60° E. and N.60° W.; thence
	over slightly rolling ground.
49.05	Trail bears S. 70° W.and N.70° E.; leave dense sage
49,00	undergrowth, bears S.700 W. and N.700 E; enterin scat-
	,
5 T 05	tering sage.
51.95	Old road bears N.E. and S.W.
56.60.	
60.75	Enter dense sage undergrowth bears E.and W.; leave
71.65	scattering sage. Old road bears N.50° E.and S.50° W.
80.00	Set a trachyte stone I4xI0x6 ins., I0 ins.in the
80,00	ground, for cor. of secs. 8,9,16 and 17, marked with
	4 notches on S.and E.edges; dug pits [8x18x12 ins.,
1020 a	in each sec., 5 I/2 ft.dist.; and raised a mound of
P. J	earth, 4 ft.base, 2 ft.high, W.of cor.
1,	Land partly mountainous and broken ridges and partly
•	nearly level and rolling land.
	Soil, clay loam and gravelly and on ridges slightly
	stony; 2nd.3rd.and 4th.rate.
	No timber.

4.3

Subdivisions of T.36 S., R.17 W.-Continued.

	Subdivisions of T.36 S., R.17 WContinued.
Chains	Undergrowth, shrubbery and grasses afford fair graz-
	Mountainous land or land covered with dense under-
	growth on 68.30 chs.
	November 21,1899.
	N 89°55'
	E., on a random line bet.secs. 9 and 16.
40.00	Set temp.I/4 sec.cor.
80.18	Intersect N.and S.line, 5 lks.N.of the cor.of secs.
•	9,10,15 and 16,heretofore described.
	Thence I run
	S.89057' W.on a true line bet.secs.9 and 16.
	Descend over N.W.slope of ridges; through medium
	dense sage undergrowth.
12.20	Foot of ridges about 75 ft.below the sec.cor., bears
	N.400 E and S.400 W.; thence over slightly rolling
	ground, along the foot of S. slope of ridges.
	Enter dense sage undergrowth bears H.E. and S.W.;
	leave medium dense sage.
34.80	Trail bears N.100 W.and S.100 E.
38.20	Wash about I5 lks.wide and 2 ft.deep,drains S.
40.09	Set a trachyte stone I5xI5x6 ins., IO ins.in the
,	ground, for 1/4 sec.cor., marked I/4 on N.face; dug
	pits I8xI8xI2 ins.,E.and W.of stone,3 ft.dist.;and
	raised a mound of earth, 3 1/2 ft.base, I 1/2 ft.high,
	H.of cor.
44.60	Trail bears N.50° E.and S.50° W.
60.20	Wash about 25 lks.wide and 4 ft.deep, drains S.600 E.
68.10	Old road bears S.W. and N.E.
71.IO	Road from St.George to Modena bears S.E.and N.W.
73.40	Trail bears N:350 W.and S.350 E.
80.18	The cor.of secs.8,9,16 and 17.
	Land, E.12.20 chs.mountainous and broken ridges;
l	1

W.67.98 chs.slightly rolling with ridges on N.of line

Chains Soil on ridges gravelly and stony; along the foot of ridges in narrow valley or canon the soil is rich clay loam, slightly gravelly; 4th. 3rd. and 2nd. rate. No timber. Sage undergrowth with shrubbery and grasses in. abundance afford good grazing. Mountainous land or land covered with dense undergrowth on 80.18 chs. 1. 1. 5. 1. 1. 1. 1. 1. 1. 1. 1. 1. 00 60 100 N.,003' W., bet.secs.8 and 9; gradually ascending over slightly rolling ground; through dense sage undergrowth Trail bears N.650 W.and S.650 E. 6.60 Road from St.George to Modena, bears S.E. and N.W. 8.68 Wash about IO lks.wide and 4 ft.deep, drains S.800 E. 9.90 about I.00 ch., thence S.250 E. Trail bears S.E. and N.W. 11.93 Enter hollow about I5 ft.deep,drains S.I50 E. I6.00 Leave hollow and begin ascent over S.W.slope of 24.00 ridges, bears 3.200 E. and N.200 W. Set a trachyte stone I4xI2x6 ins., IO ins.in the 40.00 ground, for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W. Pits impracticable. The cor.is on S.W. slope of ridge about 60 ft.above the hollow. Top of ridges about 50 ft.above the I/4 sec.cor., 58.00 bears N.400 E.and S.400 W.; descend over N.W.slope of ridges. Foot of descent about 40 ft.below top of ridge, bears 75.00 N.W.and S.E.; ascend along W.slope of ridges. Set a porphyry stone I4x8x6 ins., IO ins.in the ground 80.00 for cor.of secs.4,5,8 and 9, marked with 5 notches on S.and 4 notches on E.edges; dug pits I8xI8xI2 ins., in each sec.,5 I/2 ft.dist.; and raised a mound of earth, 4 ft.base, 2 ft.high, W.of cor.

Chains. Land on S.24.00 chs.rolling ; N.56.00 chs., mountainous and broken ridges. Soil, clay and gravelly; 2nd .and 3rd .rate No timber. Sage undergrowth, shrubbery and grasses in abundance and make good grazing. Mountainous land or land covered with dense undergrowth on 80.00 chs. N.,89057' E.on a random line bet.secs.4 and 9. 40.00 Set temp. I/4 sec.cor. Intersect N.and S.line 39 lks.N.of the cor.of secs. 80.26 3,4,9 and IO, heretofore described. November 22, 1899: At this sec.cor., I set off 200 S.on the decl.arc; and, at llh46M, a.m., l.m.t., 12' observe the sun on the meridian; the resulting lat. is 37041'20" N. Thence | run N.89046' W., on a true line bet.secs.4 and 9. Over ridges and hollows with course of drainage to S.E. and S.; through dense sage undergrowth. Set a porphyry stone I6xI0x6 ins., II ins.in the 40.I3 ground, for I/4 sec.cor., marked I/4 on N.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, N.of cor. Pits impracticable. This cor.is on top of ridge about 25 ft.below the sec.cor.

Continue over ridges and hollows to top of main ridge
73.00 Top of ridge about 60 ft.above the I/4 sec.cor.,

bears N.300 E.and S.300 W.; descend over W.slope of ridge.

80.26 The co

The cor.of secs.4,5,8 and 9, on W. slope about 25 ft. below top of ridge.

	Chains	Land mountainous and broken ridges.
-		Soil, clay and gravelly; 2nd and 3rd rate.
		No timber.
***************************************		Undergrowth of sage with shrubbery and grasses in
		abundance afford fair grazing.
-		Mountainous land on 80.26 chs.
-		
	٠	November 22,1899:I set off 37042', "N.on the lat.
		arc; 20013'30" S.on the decl.arc; and, at 2h46m p.m.,
		l.m.t., determine a true meridian with the solar, at
		the cor.of secs.4,5,8 and 9,heretofore described.
		thence r run
		N.00 3' W.on a true line bet.secs.4 and 5,knowing.
		that a closing cor.will be necessary on N.bdy.of Tp.
		Gradually ascend along W.slope of ridge; through dense
	·	sage undergrowth.
	18.00	Top of ascent on W.slope of ridge, about 50 ft.above
		the sec.cor., bears E.and W.; descend over W.slope of
		ridge.
	34.00	On N.W.slope of ridge descending .
	40,00	Set a lava stone I6xI6x5 ins., ll ins.in the ground,
,		for $I/4$ sec.cor., marked $I/4$ on W.face; and raised a
`.	, , , , , , , , , , , , , , , , , , ,	mound of stone, 2 ft.base, I I/2 ft.high, W.of cor.
	. ,, "	Pits impracticable. Cor.is on N.W.slope about 50 ft
		below top of ridge.
	45.00	Foot of descent on N.W.slope of ridge, about 25 ft.
		below the I/4 sec.cor., drains S.800 W.about I0.00
		chs., thence S.; ascend.
	58.00	Top of ridge about 50 ft.above foot of descent, bears
	,	S.400 W.and N.400 E.; descend more gradually over N.W
	;	slope of ridges.
	66.80	Trail bears S.800 W.and N.800 E.; foot of descent
	; ,	about 40 ft.below top of last ridge, drains 8.650 W.;

ascend over S.E. slope of ridge.

	A C C C C C C C C C C C C C C C C C C C
Chains.	
75.00	Top of ridge about 50 ft.high, bears N.70° E.and S.
	70° W.;descend over N.W.slope of ridges.
87.00	Foot of ridge about 40 ft.below the top, bears E.,
	and W.about 2.00 chs., thence N.; descend along hollow
	bet.two ridges.
107.50	Leave hollow, which drains N. 400 W.
108.30	Trail bears N.400 W.and S.300 E.
109.10	Wash at foot of descent about 25 lks.wide and 4 ft.
	deep, drains W.into hollow.
	Commence gradual ascent over S.slope of high ridges.
110.17	Trail bears N.500 W.and S.500 E.
115.16	Trail bears S.E.and N.W.; leave dense sage undergrowth
	and enter scattering sage, bears S.E. and N.W.
130.50	Top of mountain about I50 ft.high, bears S.40° E.and
	N.600 W.; descend over N.W.slope.
141.00	N.foot of ridge about IIO ft.below top of same, bears
	N.600 W., descending, and rises S.600 E.; ascend rapidly
	over S.W.slope of high mountain.
151.00	Top of mountain about I25 ft.high, bears E.and S.800
	W.; descend over N.W. slope of mountain.
157.00	Bottom of hollow and foot of descent about 50 ft.be
	low the top of mountain, drains S.750 W.
	Ascend over S.E.slope of mountain.
161.93	Intersect the 7th.Standard Parallel South, 26.87 chs.
,	W.of the old standard cor.of secs.32 and 33, T.35 S.,
	R.I7 W., which is a granite stone I0x9xI0 ins.above
	ground, marked and witnessed as described by the Sur-
	veyor General.
•	Set a lava stone I8xI0x5 ins., I2 ins.in the ground,
-	for closing cor.of secs.4 and 5, marked C.C.on S.,
	with 4 grooves on E.and 2 grooves on W.faces; and
	raised a mound of stone, 2 ft.base, I I/2 ft.high S.
	of cor. Pits impracticable.
	Cor.is on S.E.slope of mountain about 60 ft.above
	bottom of last hollow.

Chains Land mountainous and broken. Soil, clay, gravelly and stony; 2nd. 3rd. and 4th. rate. No timber. Sage undergrowth with shrubbery and grasses afford. good grazing. Mountainous land on I6I.93 chs.. November 22,1899. November 23,1899:I set off 37038 N.on hhe lat.arc;20020' S.on the desl.arc;and,at 7h47m a.m., 1.m.t., determine a true meridian with the solar, at the cor. of secs. 29,30,31 and 32, on Sectional Correction Line, heretofore described. Thence I run S.,003' E.,on a true line bet.secs.31 and 32,knowing from previous retracement of S.bay.of Tp.that a closing cor.will be necessary. Ascend over N.W.slope of ridges. Top of ridge about 50 ft.above the sec.cor., bears 7.50 S.80° E.and N.80° W.; descend over S.W. slope of ridge. S.foot of ridges, about 50 ft.below top of same, bears 27.50 N.650 W.and S.650 E.; thence over rolling narrow valley . 29.25 Trail bears S.E. and N.W. Wash about IO lks.wide and 4 ft.deep, drains E.; as-33.80 cend from wash. 40.00 Set a trachyte stone I4xI0x6 ins., I0 ins.in the ground, for I/4 sec.cor., marked I/4 on W.face; dug pits I8xI8xI2 ins., N. and S. of stone, 3 ft.dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, W.of cor. Trail bears N.500 W.and S.500 E. 59.35 Foot of mountain on S.side of valley, bears E. and W.; 67.52

ascend over N.W.and N.slopes of mountain.

Chains.

79.52

39.50

IO.55

11.00

25.50

Intersect S.bdy.of the Tp.,4.00 chs.,3.89°08' E.of. the old cor.of secs.5,6,31 and 32,heretofore described in the notes of retracement of this bdy.

Set a granite stone I4xI0x6 ins.,IO ins.in the ground, for closing cor.of secs.,31 and 32,marked C.

C.on N.with 5 grooves on E.and 1 groove on W.faces; and raised a mound of stone,2 ft.base,I I/2 ft.high, N.of cor. Pits impracticable. Cor.is on N.W.slope of high ridge or mountain, about 75 ft.above foot of ridges.

I destroy the marks on the old cor.of secs.5,6,31 and 32 that pertain to secs.31 and 32,and remark the same for cor.of secs.5 and 6,T.37 S.,R.17 W.,only.

Land partly mountainous and broken and partly rolling valley.

Soil, on the ridges, gravelly and stony; and clay-gravelly in the valley; 4th., 3rd. and 2nd. rate.

Timber, scattering cedars on S.34.50 chs., and juniper on N.8.00 chs.

medium dense sage undergrowth with shrubbery and grasses afford good grazing.

Mountainous land on 39.50 chs.

From the cor.of secs.29,30,31 and 32,heretofore described, (On sectional correction line),I run N.00 3' W., bet.secs.29 and 30.

Descend over N.W. slope of ridges.

Road from Hebron to Modena at foot of ridges, about 60 ft.below the sec.cor., follows course of ridges, s.50° W.and N.50° E.-course of drainage N.50° E.

Begin ascend of ridges, bears N.55° E. and S.55° W.

Top of ascent of ridges about I25 ft. above the road
bears S.75° W. and N.75° E.; descend over N. slope of

Subdivisions of T.36 S., R.17 W.-Continued. Chains. 40.00 Set a trachyte stone I4x8x6 ins., I0 ins.in the ground for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I 1/2 ft.high, W. of cor. Pits impracticable. Cor.is on N.slope of ridge, about 100 ft.below top of ridge. Bottom of hollow and foot of ridges about 25 ft.be-45.00 low the I/4 sec.cor., drains with course of ridges S.750 E.; ascend over S.W.slope. Top of ascent of ridges about 75 ft.above last hol-52.00 low bears 5.60 W.and N.600 E.; descend over N.W.slope of ridges. . Foot of descent, about I50 ft. below top of last rid-66.00 ges, bears E.and W., with drainage to E.; descend over broken ridges, along N.E. and E. slopes. Set a trachyte stone I4xI0xI0 ins., I0 ins.in the 80.00 ground, for cor.of secs. 19, 20, 29 and 30, marked with 2 notches on S.and 5 notches on E.edges; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W. of cor. Pits impracticable. The cor.is near foot of S.E.slope of ridges, about 75 ft. below foot of last descent. Land mountainous and broken ridges. Soil, clay, gravelly and stony; 3rd and 4th .rate. No timber, except scattering juniper on S.51.00 chs. Medium dense sage undergrowth with shrubbery and grasses afford good grazing. Mountainous land on 80.00 chs.

Set temp. I/4 sec. cor.

Intersect N. and S.line 2I lks. N. of the cor. of sec.

E., on a random line bet.secs.20 and 29.

20,21,28 and 29, heretofore described.

N.8905I' W.on a true line bet.secs.20 and 29

40.00

80.I4

Thence I run

Chains	Descend over W.slope of rocky ridge.
17.85	West foot of ridge about 80 ft.below the sec.cor.,
	bears N.40° E.and S.40° W.; ascend over S.E.slope of
	knoll.
22.35	Top of ascent on S.slope of knoll, about 25 ft. above
,	foot of knoll; top of knoll about 200 ft, high, bears
	N.about 20.00 chs; this knoll joins range of moun-
	tains on E. Descend over S.W.slope of knoll.
37.00	S.W.foot of knoll, bears N.700 W.and S.700 E.; thence
,	over rolling ground.
40.07	Set a trachyte stone I2xI0x5 ins.,8 ins.in the ground
	for I/4 sec.cor.,marked I/4 on N.face;dug pits I8x
	xI8xI2 ins., E. and W. of stone, 3 ft.dist.; and raised a
	mound of earth, 3 I/2 ft.base, I I/2 ft.high, N.of cor.
40 .5 5	Trail bears N.600 W.and S.600 E.
41.20	Road from Hebron and Enterprise to Modena bears S.E.
	and N.W.
43.95	Trail bears N.400 W.and S.400 E.
47.00	Road from Hebron to Modena, bears S.100 E., and N.100
•	W., and joins main road at about 10.00 chs.dsst.
48.00	Begin ascent of ridges and foot hills, bears N.W. and
	S.E.; leave rolling land.
80.14	The cor.of secs.19,20,29 and 30, at foot of S.E.
	slope of high ridges, about 50 ft. above beginning of
69.14	ascent of foot hills and ridges.
11.0	Land partly mountainous and broken ridges and partly
	rolling.
	Soil, gravelly, clay loam and gravelly, and stony; 3rd.
	2nd.and 4th.rate.
,	No timber.
	Undergrowth of sage, medium dense, with shrubbery and
	grasses, which afford good grazing.
	Mountainous land on 69.14 chs.

November 23,1899:At this cor.of secs.19,20,29 and

30, I set off 20024 30" S.on the decl.arc; and at

	Subdivisions of T.36 SR.17 WContinued.
Chains	llh47m a.m.,l.m.t.,observe the sun on the meridian;
To allow the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party	the resulting lat.is 37039 N.
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	W., on a random line bet.secs. 19 and 30.
40.00	Set temp.I/4 sec.cor.
84.96	Intersect W.bdy.of Tp.,37 lks.N.of the old cor.of
100	secs. 19,24,25 and 30, which is a cobble stone I4xI0x
	5 ins.above ground, marked and witnessed as described
	by the Surveyor general.
	N.89°45' E.on a true line bet.secs. 19 and 30.
	Descend over E.slope of low ridges and foot hills.
13.80	Old wood road from Hebron to the wood hills, bears S.
	and N.
17.70	E.foot of ridges, bears N.40° E.and S.40° W.; thence
	over low hills, still descending.
19.40	Trail bears S.I50 E. and N.I50 W.
21.20.	Wash about 8 lks.wide and 4 ft.decp, drains N.E.
28.50	Trail bears N. and S.
29.26.	W.foot of high ridge bears S.IO E.and N.IO W.; as-
	cend over W.slope of ridge; leave low hills.
44.96	Set a trachyte stone I5x8x5 ins., IO ins.in the ground
	for I/4 sec.cor., marked I/4 on N.face; and raised a
	mound of stone, 2 ft.base, I I/2 ft.high, N.of cor.
1	Pits impracticable. The cor.is on W.slope about 200
	ft.above foot of ridges.
51.00	Top of ridge about 250 ft.high, bears N.E. and S.W.;
{	descend over E. and S.E. slopes of broken ridges.
84.96	The cor.of secs.19,20,29 and 30, near foot of S.E.
2.00	slope about 250 ft.below top of ridge.
71.76	Land mostly mountainous and broken ridges with nar-
1 1 3 *	row strip near W. side of Tp., low rolling hills.
;	Soil, clay, gravelly and stony; 2nd., 3rd. and 4th. rate.
)	Timber, scattering cedars and juniper on W.72.00 chs.

Medium dense sage undergrowth with shrubbery and

Subdivisions of T.36 S., R.17 W.-Continued. Chains, grasses in sufficient quantity to make good grazing. Mountainous land on 73.40 chs. $N.,0^{0}3'$ W., bet.secs. 19 and 20. Ascend over S.E.slope of ridge. 6.00 Top of ascent on E.slope of high ridge, about 75 ft. above the sec.cor., bears E. and W.; descend along E. slope of ridge. N.E.foot of ridge bears S.E.and N.W.; thence descend I5.00 gradually over E.slope of low hills. Enter scatteringcedars bears E.and W. 20.50 Road from Enterprise to the wood hills, bears S.E. and 28.06 N.W. Trail bears N.W.and S.E. 33.20 Set a trachyte stone, I2xI2x5 ins., 8 ins.in the ground 40.00 for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W.of cor. Pits impracticable. Cor.on E.slope about 50 ft.below M.E.foot of ridge. Trail bears N.500 W.and S.500 E. 46.60 Trail bears N.350 W.and S.350 E. 64.78 Wash about 20 lks.wide and 5 ft.deep, drains E.I.00 ch 79.00 thence N.400 E. Set a trachyte stone I8xI2x6 ins., I2 ins.in the 00.08 ground, for cor.of secs. 17, 18, 19 and 20, marked with 3 notches on S.and 5 notches on E.edges; from which A cedar I2 ins.diam., bears N.28045' E., II6 lks.dist. marked T.36 S.,R.17 W.,S.17,B.T. Land mostly rolling, with course of drainage to E. and N.E.;15.00 chs.on S.mountainous and broken ridges. Soil, clay loam and gravelly on rolling land and grav

elly and stony on the ridges; 2nd. and 3rd. rate.

Timber, scattering cedars on N.59.50 chs.

Chains	Medium dense undergrowth of sage with shrubbery and
	grasses afford fair grazing.
	Mountainous land on I5.00 chs.
	November 23,1899.
	S.,89051' E.on a random line bet.secs.17 and 20.
40.00	Set temp.I/4 sec.cor.
80.12	Intersect N.and S.line, 2I lks.N.of the cor.of secs.
	I6, I7, 20 and 21, heretofore described.
	November 24,1899:At this sec.cor., I set off 370
	46' N. on the lat.arc; 20035'30" S. on the decl.arc;
	and, at 9h 47m, a.m., l.m.t., determine a true meridian
	with the solar; thence I run
	N.,89 $^{\circ}$ 42 $^{'}$ W.on a true line bet.secs.I7 and 20.
	Gradually ascend over rolling ground; through dense
	sage undergrowth.
5.50	Enter scattering cedars bears N.and S.
20.35	Begin ascent of ridges, about 25 ft. above the sec.
	cor.bears N.and S.;leave rolling land.
	Leave dense sage undergrowth and enter scattering
	sage and juniper, bears N. and S.
28.35	Top of ascent on N.slope of ridge, about 75 ft.above
	foot of same, bears N.E. and S.W.; descend over N.W.
	slope.
33.35	Foot of descent about 40 ft.below top of last ridge,
	drains N.; ascend along E.and N.E.slopes of ridges.
40.06	Set a trachyte stone I6xI0x6 ins., II ins.in the
	ground, for $I/4$ sec.cor., marked $I/4$ on N.face; and
	raised a mound of stone, 2 ft.base, I 1/2 ft.high, N.
	of cor. Pits impracticable. Cor.is on N.E.slope
	of ridge about 75 ft.above foot of last descent.
44.35	Top of ascent on N.E.slope of ridge, about 50 ft.
	above the I/4 sec.cor., bears N.E. and S.W.; descend
	over N.W.slope of ridges.
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	• .	Subdivisions of T.36 S.,R.17.WContinued.
Cr	nains	
1	5.35	Leave scattering cedars and juniper bears N.and S.
	4.85	W.foot of ridges about 75 ft.below top of ridges,
		bears N.200 E.and S.200 W.road from Hebron and En-
		terprise to Modena, bears S. 20° W. and N. 20° E
		Leave scattering sage and enter dense sage under-
		growth bears N.E.and S.W.; ascend gradually over
		slightly rolling land, with general course of drainage
		to N.E.
5	7.35.	Wash about I2 lks.wide and 3 ft.deep, drains N.250 E.
7.	4.85	Trail bears N.350 E.and S.350 W.
7	8.85	Wash about 45 lks.wide and 6 ft.deep, drains N.400 E.
- 8	0.12	The cor.of secs.17,18,19 and 20.
		Land mountainous and broken ridges, and rolling .
		Soil, clay loam intermixed with gravel below the rid-
		ges, and gravelly and stony on the ridges; 2nd. 3rd.
		and 4th.rate.
		Timber, scattering cedars and juniper on E.part and
		scattering cedars surrounding the corner.
	•	Sage undergrowth, shrubbery and grasses afford fair
		grazing.
		Mountainous land or land covered with dense under-
		growth on 80.12 chs.
		·
		S.89045' W., on a random line bet.secs. I8 and I9.
4	40.00	Set temp.I/4 sec.cor.
1	85.20	Intersect W.bdy.of Tp.,49 lks.N.of the old cor.of
		secs. I3, I8, 19 and 24, which is a trachyte stone I5xI2
-		x6 ins.above ground, marked and witnessed as descri-
		bed by the Surveyor general.
		Thence I run
		N.890 25' E.on a true line bet.secs. 18 and 19.
	•	Descend over slightly rolling land; through scatter-
		ing cedars and jumpper; and medium dense sage under-

Chains growth.

45.20

66.00

85.20

10.00 Leave scattering junipers bears N. and S.; continue . in scattering cedars.

Trail bears S.I50 E.and N.I50 W. 13.25

Wood road from Hebron to the wood hills, bears 5.700 32.00

E.and N.70° W.

43.20 Trail bears N.W. and S.E. Set a lava stone 22x8x6 ins., I7 ins.in the ground,

for I/4 sec.cor., marked I/4 on N.face; and raised a

mound of stone, 2 ft.base, I 1/2 ft.high, N.of cor. Pits impracticable.

Leave scattering cedars and medium dense sage undergrowth bears N. and S.; enter dense sage undergrowth

The cor. of secs. 17, 18, 19 and 20.

I land slightly rolling with general course of drainage to E.and N.E.

> Soil, clay loam and gravelly-stony in parts; 2nd and 3nd rate. Timber, scattering cedars and juniper on W.66.00 chs.

> and a few cedars surrounding the cor. Undergrowth, shrubbery and grasses all along the line

in sufficient quantity to make good grazing.

Dense sage undergrowth on .19.20 chs. November 24,1899:At this cor. of secs. 17,18,19 and

20, I set off 20037' S.on the decl.arc; and, at 11h47m a.m., l.m.t., observe the sun on the meridian; the resulting lat.is 37° 40′ " K.

17.003' W., bet. secs. 17 and 18.

Over rolling land, descending, through dense sage undergrowth.

8.60 Trail bears N.W. and S.E.

Wash about 20 lks.wide and 5 ft.deep,drains S.750 E. 10.80 along foot of ridges; ascend over S. slope of ridges.

Chains.	Enter scattering cedars bears S.E.and N.W.;leave
	dense sage undergrowth and enter medium dense sage.
17.00	Top of ridge about 75 ft.high,bears S.80° E.and N.
•	800 W.; thence over top of ridge.
28,00	Commence to descend over N.slope of ridge, bears E.and
	w
32.00	Leave scattering cedars.
35.00	Foot of descent about 40 ft.below top of ridge drains
,	along foot of ridges on N.E.course.;ascend over S.E.
	slope of ridge.
40.00	Set a volcanie stone I4xI0x6 ins., IO ins.in the
	ground, for I/4 sec.cor., marked I/4 on W.face; and
	raised a mound ofstone; 2 ft.base, I I/2 ft.high, W.of
	cor. Pits impracticable.
54.00	Top of ridge about 75 ft.high,bears S.35° W.and N.35°
	E.; descend over N.W.slope of ridge.
69.00	Foot of descent about 50 ft.below top of last ridge
	drains N.600 E.along foot of ridges; ascend over S.
	E.slope of ridge.
78.00	Top of ridge about 75 ft.high, bears N.50° E.and S.50°
	W.; thence along top of ridge.
80.00	Set a trachyte stone I5xI0x6 ins., I0 ins.in the
	ground, for cor.of secs.7,8,17 and 18, marked with 4
	notches on S.and 5 notches on E.edges; and raised a
	mound of stone,2 ft.base, I I/2 ft.high, W.of cor.
	Pits impracticable.
	Land mostly mountainous and broken ridges with S.
	I/8 mile slightly rolling.
	Soil, gravelly and stony; 3rd.rate.
	Timber, scattering cedars in S.I/2 of sections.
	Sage undergrowth with shrubbery and grasses afford
	fair grazing.
	Mountainous land or land covered with dense sage
	undergrowth on 80.00 chs.
ł	

•	Chains	S.,89042' E.on a random line bet.secs.8 and I7.
	40.00	Set temp.I/4 sec.cor.
	80.16	Intersect N.and S.line, I4 lks.S.of the cor.of secs.
	,	8,9,16 and 17,heretofore described.
		Thence I run
		N.89048' W., on a true line bet.secs.8 and 17.
		Ascend over E.slope of ridges.
	8.80	Road from . 'Hebron' to Modena, bears B. and N, joins
	er sj	road from St.George to Modena at about 20.00 chs.
	g. v	N.20° W.
	40.08	Set a trachyte stone I4x8x6 ins., IO ins.in the
		ground for $I/4$ sec.cor., marked $I/4$ on N.face; and
		raised a mound of stone,2 ft.base, I I/2 ft.high, N.
		of cor. Pits impracticable. Cor.on S.E.slope of
		ridges about 75 ft.above the sec.cor.
	52.00	Top of ridge about 30 ft.above the $I/4$ sec.cor.,
		bears N.850 E.and S.250 W.; descend over N.W.slope.
	66.00	Foot of descent about 50 ft.below top of ridge, bears
		N.E.and S.W.; ascend over S.E.slope of ridge.
	78.00	Top of ridge about 50 ft.high, bears N.700 E.and S.
		700 W.; thence along top of ridge.
_	80.16	The cor.of secs.7,8,17 and 18.
}		Land mountainous and broken ridges.
		Soil, clay and gravelly with parts stony; 3rd and 4th.
	•	rate.
		No timber.
		Medium dense sage with shrubbery and grasses afford
1		fair grazing.
ļ		Mountainous land on 80.16 chs.
1		

40.00 Set temp.I/4 sec.cor.

85.29 Intersect W.bdy.of Tp., 42 lks.S.of the old cor.of secs.7,12,13 and 18, which is a granite stone IOx6

S.89025' W.on'a random line bet.secs.7 and 18.

x5 ins.above ground, marked and witnessed as descri-Chains bed by the Surveyor General. Thence I run N.,89042' E.on a true line bet.secs.7 and 18. Descend gradually over E.slope, slightly rolling, through medium dense sage undergrowth. 30.60 Hollow about 50 lks.wide and 25 ft.deep, drains N.E. Enter dense sage undergrowth bears N.E. and S.W.; leave medium dense sage. Set a trachyte stone I8x8x5 ins., I2 ins.in the ground 45.29 for I/4 sec.cor., marked I/4 on N.face; dug pits I8x I8xI2 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, N.of cor. Wash about I5 lks.wide and 3 ft.deep, drains S.150E. 53.45 Recross same wash drains N.60° E. 59.60 Foot of ridges bears N.500 E.and S.500 W.; ascend 70.60 over N.W.slope of ridges; leave dense sage undergrowth bears N.E.and S.W.; enter medium dense sage. The cor.of secs.7,8,17 and 18, on top of ridge about 85.29 IOO ft.above foot of ridge. Land, mountainous and broken ridges on E., and nearly level, slightly rolling on W. Soil, clay loam and gravelly; 2nd and 3rd .rate. No timber. Sage undergrowth, with an abundance of shrubbery and grasses make good grazing. Mountainous land or land covered with dense under-

November 24, 1899.

November 25,1899:I set off 37°41' N.on the lat.arc;20°46'. S.on the decl.arc;and,at 8h47m a. m.,l.m.t.,determine a true meridian with the solar, at the cor.of secs.7,8,17 and 18,heretofore described

growth on 54.69 chs.

Chains Thence I run N.,00 3' W., bet.secs.7 and 8. Descend over N.W.slope of ridge; through medium dense sage undergrowth. Foot of ridges about 50 ft.below the sec.cor., bears IO.00 N.60° E.and S.60° W.; thence over nearly level land. Wash about 10 lks.wide and 3 ft.deep, drains N.700E. 12.60 15.00 Road from Hebron to Modena bears 5.750 W.and N.600. E. . . Foot of ridges bears N.750 E.and S.750 W.; ascend I6.00 over S.E.slope of ridges. Top of ridge about 50 ft.kigh, bears $N.65^{\circ}$ E.and S. 27.00 650 W.: thence along top of ridges, still ascending. Commence to descend over N.E.slope of ridges. 37.00 Set a traphyte stone I6xI2x6 ins., ll ins.in hhe ground 40.00 for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone, 2 ft.base, I I/2 ft.high, W.of cor. Pits impracticable. Foot of descent, about 50 ft. below top of last ridge, 60.00 drains S.800 E.; ascend over S.W. slope of ridges. Trail bears S.E.and N.W. 61.30 Top of ridge about 75 ft.above foot of descent, bears 75.00 S.40° E.and N.40° W.; descend over N.E. slope of ridge. Set a granite stone I6x8x6 ins., II ins.in the ground; 80.00 for cor.of secs.5,6,7 and 8, marked with 5 notches on S.and E.edges; dug pits I8xI8xI2 ins.in each sec., 5 I/2 ft.dist.; and raised a mound of earth, 4 ft.base 2 ft.high, W.of cor. Land mostly mountainous and broken ridges; narrow

strip along the road almost level, slightly rolling. Soil, clay and gravelly; 2nd. and 3rd. rate.

Medium dense sage with shrubbery and grasses in abundance affords good grazing.

Mountainous land on 74.00 chs.

No timber.

Chains.	S89°48'E on a random line bet.secs.5 and 8.
40.00	Set temp.I/4 sec.cor.
80.12	Intersect N. and S.line 12 CK N of cor. of secs. 4,
	5,8 and 9, heretofore described.
	Thence I run
١	N.,89043' W.on a true line bet.secs.5 and 8.
•	Descend over W.slope of ridges.
8.88	Trail bears N.10° E.and S.10° W.
. 9.45	Wash at foot of descent about I5 ft.below the sec.
	cor.,about I2 lks.wide and 2 ft.deep,drains S.IOO W.;
	ascend from wash over S.E.slope of ridges.
28,00	Top of ridge about 75 ft.high, bears N.and S.; descend
	over S.W.slope of ridges.
40.06	Set a trachyte stone 22xI0x8 ins., I6 ins.in the
	ground, for I/4 sec.cor., marked I/4 on N.face; and
	raised a mound of stone,2 ft.base, I I/2 ft.high, N.
	of cor. Pits impracticable.
57.55	Trail bears N.10° W.and S.10° E.
58.00	Foot of descent about 50 ft.below top of last ridge,
	drains 5.100 E.; ascend gradually.
68.85	Trail bears S.40° E.and N.40° W.
69.15	Road from St.George to Modena, bears S.40° E.and N.
	40° W.; ascend over E.slope of ridges same course
	as road.
80.12	To the cor.of secs.5,6,7 and 8, on top of ridge, about
(19)	50 ft.ahove the road and foot of ridges.
66 15	Land mostly mountainous and broken ridges with narrow
	strip along the road between the ridges almost level.
	Soil, clay and gravelly with streaks of stony ground;
	2nd.and 3rd.rate.
	No timber.
	Medium dense sage undergrowth with shrubbery and
	grasses afford fair grazing.
	Mountainous land on 68.97 chs.
1	•

Chains. Sej42W on a random line bet.secs.6 and 7. 40.00 Set temp. I/4 sec.cor. 84.95 Intersect W.bdy.of Tp., 20lt 8 cor.of secs.I, 6,7 and I2, which is a granite stone I2x4x6 ins.above ground, marked and witnessed as described by the Surveyor General. Thence I run N..89050' E.on a true line bet.secs.6 and 7. Descend over low ridges and hollows with general course of drainage Southeasterly. 29.82 Trail bears N.W. and S.E. 44.95 | Set a porphyry stone I4xI0x6 ins., I0 ins.in the ground, for I/4 sec.cor., marked I/4 on N.face; dug pits I8xI8xI2 ins., E. and W. of stone, 3 ft. dist.; and. raised a mound of earth, 3 I/2 ft.base, I I/2 ft.high, Cor.is on S.slope of low ridge about 50 N.of cor. ft.below the sec.cor. 48.75 | Foot of descent about I5 ft.below the sec.cor., drains S.3.00 chs., thence S.600 E.; ascend over N.W. slope of ridges. Top of ridges about 50 ft.high, bears N.E. and S.W.; 54.75 thence over top of ridge still ascending. 63.75 | Commence descent over E.slope of ridges, bears N.200 E.and S.200 W. Foot of descent about 40 ft.below top of last ridge, 74.75 drains S.200 W.; ascend 84.95 The cor.of secs.5,6,7 and 8. Land mountainous and broken ridges. Soil, clay and gravelly with very little stony ground in W.part of secs; 2nd, and 3rd, rate. No timber. Medium dense sage undergrowth with sufficient shrubbery and grasses to make good grazing.

> November 25,1899:At this cor.of secs.5,6,7 and 8, I set off $20^{\circ}48'$ 30 S. on the decl.arc; and, at $11^{h}47^{m}$

Mountainous land on 84.95. chs.

Chains a.m., l.m.t., observe the sun on the meridian; the resulting lat.is 37042' N.

November 25,1899:I set off 37°42' N.on the lat.arc.;20°49' S.on the decl.arc;and,at 2hoom p. m.,l.m.t.,determine a true meridian with the solar, at the cor.of secs.5,6,7 and 8,heretofore described. Thence 7 run

N.00 3' W.on a true line bet.secs.5 and 6, knowing that a closing cor.will be necessary on N.bdy.of Tp. (7th.Standard Parallel South.)

Ascend along top of ridge over small knolls and hollows.

- IO.00 Road from St.George to Modena, bears S.40° E. and N.
 40° W.
- 40.00 Set a trachyte stone I2xI0x6 ins.,8 ins.in the ground for I/4 sec.cor., marked I/4 on W.face; and raised a mound of stone,2 ft.base,I I/2 ft.high, W.of cor.

 Pits impracticable. Cor.on top of ridge which bears
 N.and S., about 75 ft.above the sec.cor.

Thence along top of ridge, still ascening.

- Commence to descend over N.E.slope of ridges.

 Foot of descent about 75 ft.below top of last ridge,
 bears E.and W.; ascend over S.E., S.and S.W.slopes of
- 88.23 Trail bears N.500 W.and S.500 E.

ridges.

- Top of ascent of ridges, about 100 ft. above foot of last descent, bears N. and S. 400 W.; descend over N. and N.E. slope of ridges.
- Foot of descent about IOO ft.below top of last ascent bears N.E.and S.W.; ascend over S.E.slope of ridge.
- I23.46 Top of ridge about 50 ft. above foot of last descent bears N.and S.; thence along top of ridge.
- 132.46 Commence to descend over N.E.slope of ridges., bears

- 161.46

Subdivisions of T.36 S., R.17 W.-Continued.

Chains N.250 W.and S. 144.46 N.E.Foot of high ridge or mountain about 150 ft.be-

low top of same, bears N.30° W.and N.70° E.; thence over ridges and foot hills, still descending.

Intersect 7th.Standard Parallel South, 27.05 chs.W.

of the standard cor.of secs.31 and 32,T.35 S.,R.I7 W. which is a granite stone I7x9x6 ins.in a mound of

stone, marked and witnessed as described by the Surveyor General.

Set a trachyte stone I5xI0x4 ins., I0 ins.in the ground, for closing cor. of secs. 5 and 6, marked C.C.

on'S., with 5 grooves on E. and I groove on W.faces; dug pits I8xI8x12 ins., crosswise on each line E. and

W.,3 ft.,and S.of stone,7 ft.dist.;and raised a

mound of earth, 4 ft.base, 2 ft.high, S.of cor.

Land mountainous and broken ridges.

Soil, clay and gravelly with streaks of stony ground;

2nd.3rd.and 4th.rate.

No timber.

Medium dense undergrowth, shrubbery and grasses, afford good grazing.

Mountainous land on I6I.46 chs.

November 25,1899.

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Subdivisions of T.36 S., R.17 W.-Continued.

GENERAL DESCRIPTION.

The East boundary of this Tp.lies along the S. Western border of the Escalante Desert-a part of the Great American Desert-at the E.foot of slope adjoining the foot hills and ridges; the H. and S. bdys.lie along high mountains and ridges cut with narrow hollows and canons; and the W. bdy.crosses low broken ridges.

The interior surface is made up of high mountains and ridges, low ridges and narrow valleys; and the general course of drainage through the Tp.is towards the Shoal Creek wash-the Southwestern part draining Southerly toward the wash and the E.and Central parts draining E. and N.E.in the direction of this wash.

In the Northwestern part of the Tp.a small area drains Northerly and Northwesterly to the Desert.

Throughout the Township the soils are generally rich-gravelly in the narrow valleys and on the low ridges, and gravelly and stony on the mountains and higher ridges; and the ground is covered with undergrowth, shrubbery and grasses in abundance, which afford good grazing.

The supply of timber is limited in quantity, consisting of scattering cedars and nut pine, small tracts of which are medium dense, principally in the S.Central, S.Western and W.Central parts of the Tp., where fuel and fence material is obtained by the citizens of the towns of Hebron and Enterprise.

There are no lakes, ponds, rivers, streams or springs of water in the Tp.; and animals grazing therein must necessarily travel long distances to watering places.

There are no permanent settlers in the Township.

Lyman Canfield of Hamblin has constructed two log cabins in section / ,at a cost of about \$100.00.

The only other improvements are a minens log cabin and dugout in sec. 2 ,of the value of about \$50.00, and development work on mining claims in secs.2,3,10 and 11.

No stone quarries, lime quarries or lime kilns are found in the Tp., and there are no indications of coals, fossils or petrefactions.

There are a number of mineral locations with prospect holes, old and new, which, owing to conflicting monuments the boundaries thereof would be difficult to determine. These claims are situated along the ridges in secs.1,2,3,10,11,14 and 15, and there are indications along this ridge of the presence of copper and silver ores; and I hereby return as mineral lands the following subdivisions:

The W.I/2 of S.W.I/4 of sec.1; the Not fremoured 212 of sec.1; the S.I/2 and the Not fremoured 212 of sec.1; the S.I/2 and the Not fremoured 214 of sec.2; S.E.I/4 of sec.3; E.I/2, N.W.I/4, E.I/2 of S.W.I/4, M.E. I/4 and S.E.I/4 of sec.10; W.I/2 of sec.11; N.I/2 of M.F.I/4, and W.I/2 of S.E.I/4 of sec.11; N.W.I/4 of M.E.I/4, M.W.I/4, and M.I/2 of S.W.I/4 of sec.14; and M.E.I/4, N.W.I/4, and M.I/2 of S.W.I/4 of sec.14; and M.E.I/4, N.I/2 of S.E.I/4 and E.I/2 of M.W.I/4 of sec. II.

Movember 25, 1899.

Mayhew H. Dalley, U. S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.	
A list of the names of the individuals employed by	
, United States Deputy Surveyor, to assist in running	g, measuring, and
narking the lines and corners described in the foregoing field notes of the survey of	
Rile .	
showing the respective capacities in which they acted:	
	, Chainman.
	Chainman.
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FINAL OATH OF ASSISTANTS.	Arman
O office.	A
De Jagiak & M	Axman.
FINAL OATH OF ASSISTANTS.	, Flagman.
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We hereby certify that we assisted	
United States Deputy Surveyor	
those parts or portions of the	
of f	
of, whi	ch are represented
in the foregoing field notes as having been surveyed by him and under his direction; an	id that said survey
has been in all respects, to the best of our knowledge and belief, will and faithfully	surveyed, and the d States Surveyor
corner monuments established, according to the instructions furnished by the United	v
a Male	, Chainman.
"\h"\	
	, Chainman.
n. d. d.	, Axman.
	, Axman.
	, Flagman.
Subscribed and sworn to before me this	254
day of, 189	
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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

	, ,	'. · · · ·	
1, May hew H.	Palley		tes Deputy Surveyor,
solemnly swear that, in hursuance of a con			
United States Surveyor General-for	Lllas		, bearing date of
23 day of Janus	1899, 1	have well, faithfull	ly, and truly, in my
proper person, and in strict conformity w	rith the instruction	ns furnished by the	United Builds Burve
General for Lelass	, the Manual	Surveying Instruct	ions, and the news of
United States, surveyed all those parts or	Bortions of Free,	vienenenen. - L	MaV.
Trunship 36 South 1	reegent. T. V.	•	
	.()		*
			Pal D. A
Base and meridian, in the		of the.	Dall, Cola
(Dase and meridian, in the	Mate of	Wah, whi	ch are represented in
foregoing field notes as having been surve	eyed by me, and u	ider my direction; a	nd I do further sole
swear that all the corners of said survey l	have been establish	ed and perpetuated	in strict accordance.
the Manual of Surveying Instructions, and	l the special writte	n instructions of the	United States Surve
			the field notes, and
the foregoing are the original field notes	of such survey; an	d should any fraud	be detected, I will
the penalty of perjury under the provision	ns of an Act of Con	gress approved Aug	ust 8, 1846.
		Marchan	- 36 Que 000
	*****	Liniter	-96 Galle States Deputy S
$(h_1 \circ c)$	\sim	v connect	States Depting 15 fee
Subscribed by said Hayhun M	Valler and swo	orn to before me)	•
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this 2.2.2.4 (lay of22.2.4	principalities 108	Q NO	2 /
) ر	Edward NE	udersaw
990000 6 SEAL 6	Lolofe	verew Gener	all West
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	APPROVAL	·	
OFFICE OF THE I	INITED STATES S	URVEYOR GENERA	ΛĪ
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The foregoing field notes of the sur	vey of <i>XILL_32ZZ</i> .	1 00 00 01	B 1
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executed by Way	chew HUV	aPP.	
under his contract No. 224, Inde	d Janua	uf 23")	, 1899, having
critically examined, and the necessary e	orrections and exp	lanations made, the	said field notes, and
surveys they describe, are hereby approve		a nu	01.1
	,	Edward INC	auderosu:
	1 .	United	l States Surveyor Ger
Tetatify that the ferencing transpor	dat of the field well	on of the above decem	ihad survays in

., has been correctly copied from the original notes on file in this office

United States Surveyor Ge.